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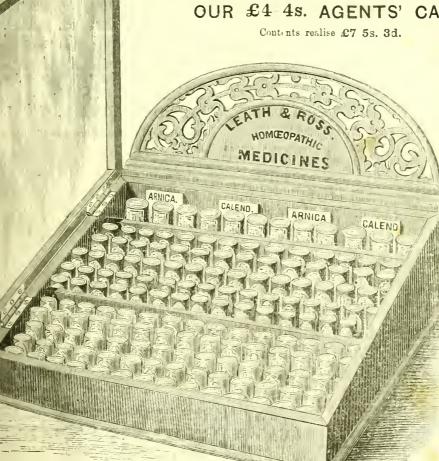
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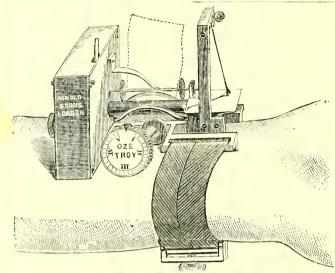
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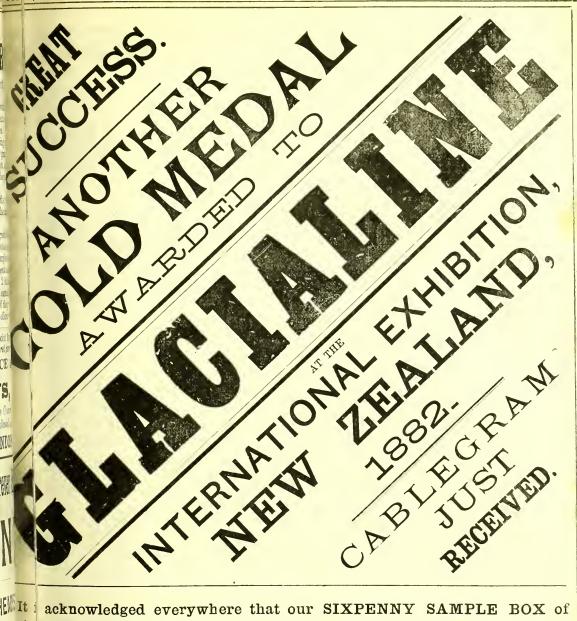
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1881.

## PHARMAGEURICAL & CHEMICAL L

In response to repeated inquiries for Preparations more concentrate than Syrups of the Pharmacopæia, but easily convertible into them, Corbyn, Stley & have extended their list of Pharmaceutical and Chemical Liquors. It now er pracefollowing:

LIQ. CROCI. 1-4.

This is the colouring and flavouring matter of Saffron in a concentrated form

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These solutions are of full strength, and are not liable to alteration by exposure to air ad light

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Free from smell, agreeably acid and contains the prescribed quantity of iron plsphate unoxidised condition.

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As an important feature of this Liquor, attention is directed to its stability, for on prol ged it has remained unchanged, although subjected to conditions which readily induce fer ental the P.B. Syrup.

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Prepared from Alexandrian leaves by a process which reduces to a minimum therrita nauseating effects of senna without impairing its medicinal efficacy.

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This Liquor when added to water or saccharine solutions forms a clear liquid, and who mixed to syrup in the proportions indicated produces a preparation more fragrant than the correspond gone Pharmacopæia. No spirit is present in the Liquor, and it retains the full and fine aroma the b This latter circumstance suggests for it a preference as a flavouring agent over the P.B. Tap, manufacture of which the more volatile and highly aromatic principles of the Tolu are dissipad.

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1881.

### EXTRACT MALT CORBYN.

C5. & Co. prepare this in vacuo, at a temperature so low that the full proportion of diastase is ad, ad the characteristic flavour is not impaired. It is nutritious, and rich in constituents necessary projection of fat and flesh, and is of great value in dyspepsia.

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essed Cold from the Fresh Seeds of Gynocardia Odorata. R. Br.

Ts remedy is official in Hindostan, and has for long been highly esteemed in that country. The acopia of India states, p. 26, "The oil obtained from the Bazaar is usually impure." Invaluable umism, Scrofula, Eczema, and all Skin Diseases.

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Pre red from carefully selected leaves, and retains the fragrant aroma of coca. It is most pleasant tast and is especially adapted for children and delicate persons as a general tonic and restorative in

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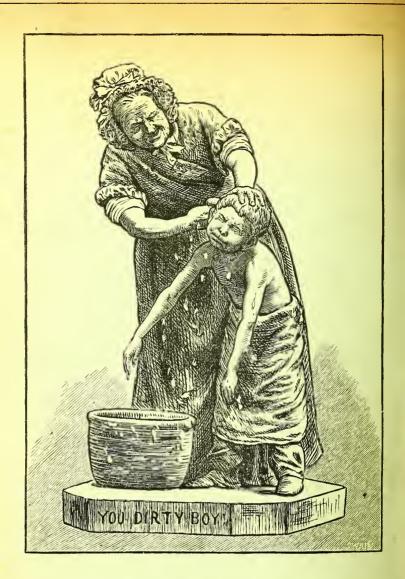
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Have been known for the last 80 years all over the world, and being well advertised, and always finding a ready sale, are well worthy the attention of Chemists, Druggists, and Storekeepers.

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7th May, 1866, and the 19th July, 1878), the truth is reached by innumerable arguments, viz.: That Johann Paul Feminis, in 1695, invented Eau de Cologne, and left the secret of the manufacture only and alone to his nephew, Johann Anton Farina, "zur Stadt Mailand" ("à la ville de Milan"),

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Hereby it is therefore established, that neither Johann Maria Farina, "Julichsplatz No. 4," nor Johann Maria Farina, "gegenüber dem Julichsplatz" (according to his own avowal, founded in 1709—therefore fourteen years later than 1695) is the oldest distiller of Eau de Cologne, but that this title lawfully belongs to the undersigned firm, which, through a Decision of

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They trust that the above distinctions conferred upon them by such expert judges we be guarantee that the Eau de Cologne of their manufacture is, without doubt, the bette to append a List of Prize Medals obtained at other Exhibitions:—

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The above firm only export to England their DOUBLE Eau de Cologne, and request the comparing the prices of the different Brands, to take into consideration that the bulk of the white label are Single (or only half strength of the Double), which enables the Males to low price with great profit. If they will trouble to compare the subjoined prices with the of manufacturing Eau de Cologne DOUBLE, the comparison will be partly of our Brand.

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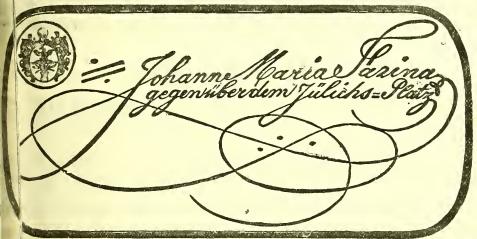
ntm t, Sole Purveyor to Her Most Gracious Vict a, Queen of Great Britain & Ireland; yal ighnesses the Prince and Princess Wal; William, King of Prussia;



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In 2 oz. Bottles.

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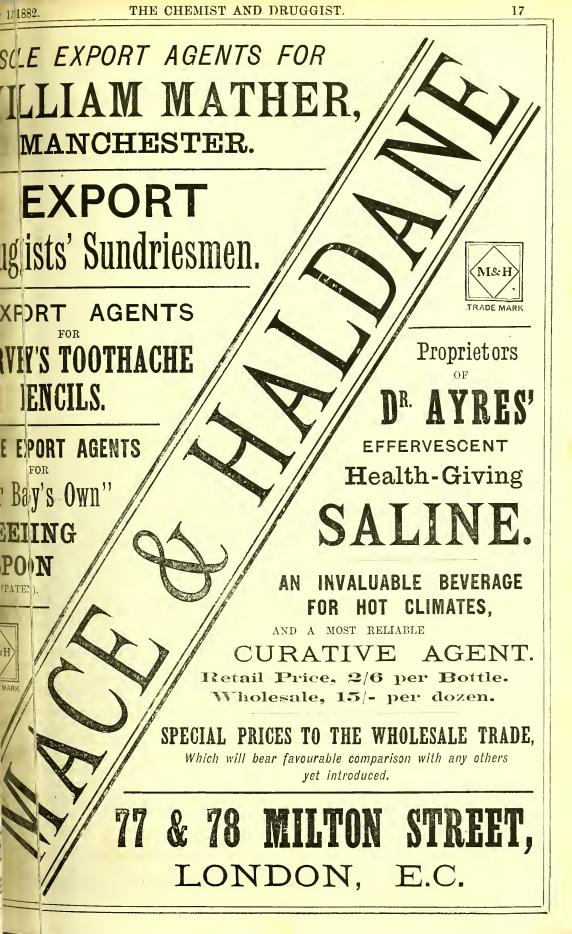
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GOLD MEDAL.



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Barley and rye are inferior in nutritive power to any of the other cereals,

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Maltine contains unimpaired, and in a highly concentrated form, the whole of the valuable soluble materials which it is possible to extract from either malted wheat, malted oats, or malted barley.

It is unrivalled as a natural solvent of bread, pastry, and all other farinaceous food, and is, therefore, an invaluable aid to sound and healthy digestion. No better preparation

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Maltine is superior in therapeutic and nutritive value to any extract of malt made from barley alone, or from any one variety of grain. Maltine is nutritive to every tissue of the body from bone to brain.

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I have no hesitation in pronouncing Maltine greatly superior to any extract of malt which I have examined.

The large amount of phosphates and albuminoids found in the Maltine demonstrates, moreover, the superior skill and care employed in its preparation, and thoroughly warrants the confidence placed in it by the Medical Profession.

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University of Louisville.

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MALTINE plain.
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We should be pleased to furnish Samples of pre to any Medical Practitioner desiri them.

Maltine will keep perfectly in any cline of of the year.

MALTINE and COMPOUNDS in Bo 25 CO 8 and 16 fluid ounces, equal in weight to and 2 and in Winchester Quarts, 120 ounces in wiht.

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TE BEST AND STRONGEST NATURAL APERIENT.

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must and congestion,
natic ad gouty disorders,
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During pregnancy and in many female diseases, For habitual constipation,

In Organic Diseases resulting from fatty degeneration,

To remove the consequences resulting from excess in diet, &c.

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tive gredients of the Bitter-Waters being Sulphate of Sodium and Sulphate of Magnesia, no other waters can
ed wi "Victoria," which contains 50 to 58 % of these solids.

alysis by Prof. H. E. ROSCOE, F.R.S., Owens College, Manchester, of Victoria Water.

	•		VICTORIA.	Hunyadi Janos.	Æsculap.	Freidrichshall.		
SU	HATE	MAGNI	α	3281·07 1716·93	1563·50 1579·57	1750 3 1340 7	641·38 715·35	
1	Total	•••	 	4998.00	3143.07	3090-10	1356-73	

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The decomposition is caused by the disengagement of Hydrogen; this sets free its equivalent of colours the remaining acid red, and renders it too irritant for internal medication.

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The combination renders Iodine more assimilable, and medicinally more active, whilst dering objectionable irritant properties, and changing it from a most disagreeable to one of the pleasantest of redies.

The Syrup has been remarkably useful in Asthma. Chronic Bronchitis, and Hay ever papers by J. P. Oliver, M.D., Boston, Medical and Swegical Journal, March 4th, 1880, and by W. Gill W. Ig. M. York, Medical Record, May 10th, 1879.) While it has been found specially useful in these diseases, it i applied to all that large class of affections in which the use of Iodine is indicate and subacute Catarrhal Affections, Goître, Adipose Tumours, Syphilis, &c.; also in chronic Malarial Poison g.

Its effect upon mucous surfaces is more marked than that of other forms of Iodine, while it is efficient relative proportions.

It is as palatable as Lemon Syrup.

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Its efficacy in Syphilis has been demonstrated.

One ounce of this Syrup contains forty minims of dilute Hydriodic Acid, representing 6.66 grains correspond to 8.69 grains of Iodide of Potassium: it is, however, more active than Iodide of Potassium and single given in smaller relative doses.

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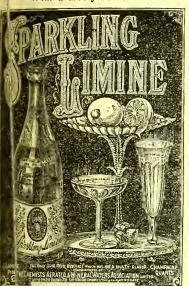
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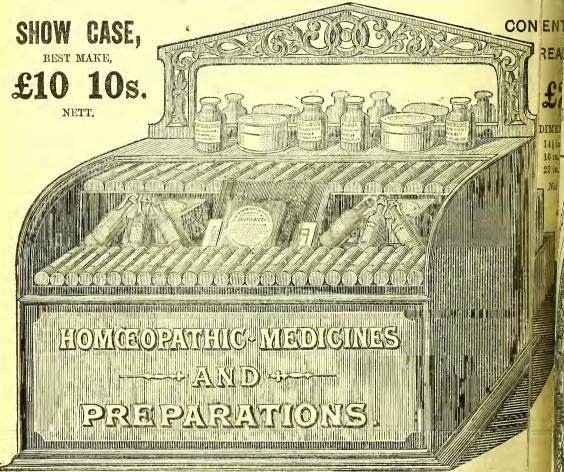
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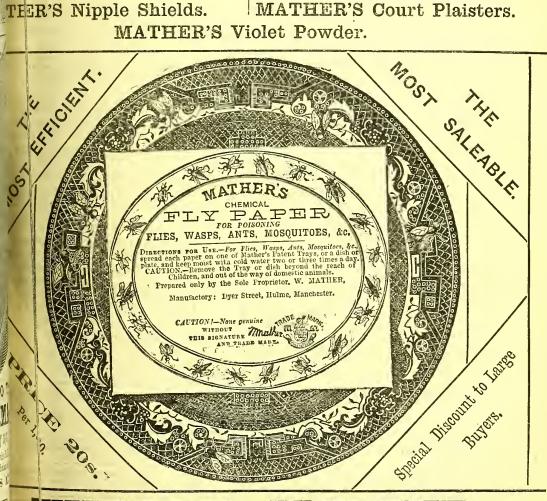
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was written to show that "honesty is the only BALL olicy, nat there can he no permanent or lasting success for also or tions unless they are wise enough to see that "morality," us to ers as they would be done hy," must he the guiding spirit

EY s intended to get people to think more of the wisually medium and its action by means of gold, paper money, be of the and cheques.

descress the impression made upon my mind in a busy rerang all classes of men, and as it has always seemed to me suffere nough in this world for our manifold sins and wickedness, was yet my readers to try to make the most of the world by and r rently oheying the Creator's laws, and dismissing the next om the minds, feeling assured they might safely leave their future nds of Fir Father in Heaven.

RES as been written to indicate in a brief space the at strict hat have been made in every department of industry, and noe since the last century; but its principal intent is to n more oughtful-more observant of what is going on around

GRES is written to show that human history is a Frogress is God's law, which we may hasten or word o egress. the carrier stop altogether. Every succeeding age starts with a faccurated knowledge in the arts of production; of increased but ends each generation to get rid of some of the errors of its State and seach generation to get rid of some of the errors of its one. Whave therefore a continual advancement from a lower to satus of telligence and well-being. We do not mark the progress of the progress of the state of the progress of the state of the progress of the state mrent a ighty impulse for the amelioration of the condition of "-(Pag 34.)

RE is religion that can be taught in all schools, inted for m of dut of frequency of dut of the color of notine, of right, of good, of love—which explains and prepares of right, of good, of love—which explains and prepares of right, of or evil. It is useless merely to root up error, esson of yand barren and useless as sea shingle; take away odds of it out replace them with truths. It must be right to dings in tworld, to make better for man and beast, to do all we crease homess, and refrain from doing anything that will a - (Pag 92.)

time is come when mankind must face the stlou bol and openly, how the 'Creator governs the world ''does' gress' depend on the observance of God's law? Is time Jones depend on the onservance of Goussian; 1se on to be own hy his acts or hy his professions of belief? Are and effect, in law—invariable, inevitable, unerring estimation, Divine interposition?' I put this because it seems to me that upon it rests our inture,'

adesman should read the chapter Istribution more especially pages 172 to 178, which explains essenties the "Parcels Post" and the question of carriage of Railway Capanies.

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The subjoined Pass-list for this month speaks for itself, and is a more reliable guide than flattering Advertisements, in enabling Students to decide at which School they can prosecute their studies with the greatest success. Columns might be written upon the numerous advantages offered by this College, but we prefer to rely upon results.

### MINOR EXAMINATION. LONDON

JUNE, 1882.

41 Candidates were examined. FROM THE

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14 presented themselves; the

following 9 passed :-ARKLE, C. A. Lanca ter COOMES. W. T. Bren ford ELTON, T. F. Cirenciste HILL, A. Leice-ter COATES, U. A. Walsall Cirencister HUMPHRIES. J.

RICKETTS, J. . SPENCER, G. . . . Hitchin THOMPSON, C. L. . London

Cleckbeaton Plymouth

24 Failed.

17 Passed.

. . Manchester

. Reading WILLCOCKS, A. S. . Portsea

FROM ALL

OTHER SOURCES COMBINED.

27 presented themselves: the

following 8 passed:

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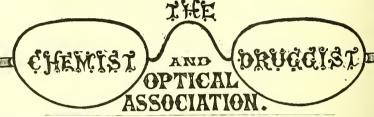
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### INDEX TO ADVERTISEMENT

See Pages 23 and 24.

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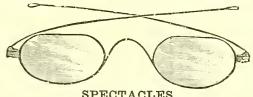
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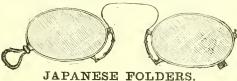
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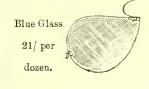
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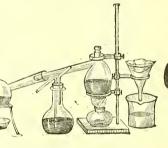
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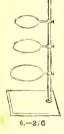
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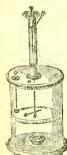
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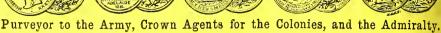
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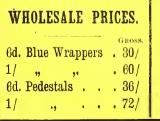
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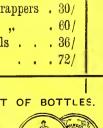
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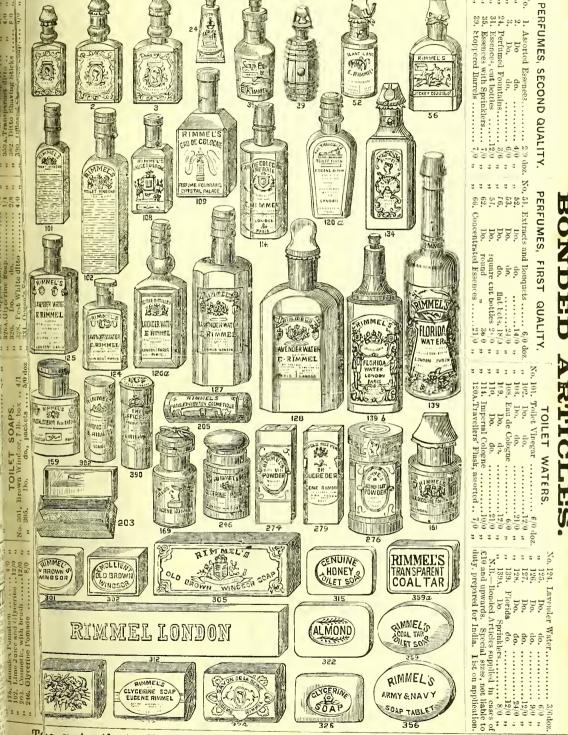
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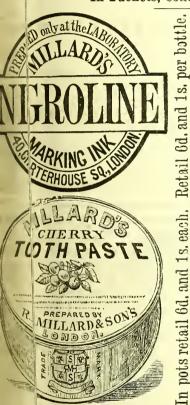
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Similar to the above (without grease). Price 1s. 6d. and 3s. 6 er bottle

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In 1 oz. Sheet, 12s, per dozen.

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An Upper or Lower Set, inclusive of Teeth Rul r, &c., £1 Ditto, ditto, on Platina, £2 2s.

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Twenty years' experience in mechanics ork. LESSONS GIVEN IN MECHANICAL DITISTRY

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g reply received to the private and confidential plar la ly sent out by me to all Chemists enumerated he last dition of "Kelly's Chemists and Druggists" ectory leave no doubt that nothing but a public clear stement of my policy will satisfy the majority Patent Iedicine Vendors.

vast count of ill-feeling has been created against throu having at the foot of my prospectus the nes of le leading wholesale houses as agents for

### KANOLDTS

### PERENT TAMARIND LOZENGES.

f wholale houses want proofs for this statement, cause f my present steps-I will furnish them applican. While setting the grocers and stores gether defiance, I assure, herewith, the Chemists at to that would never have introduced my speciality the whosale houses had not all the Chemists first lied to ferred me to the former, with the remark, we ge enquiries for your lozenges, we will obtain m thro h our regular wholesale houses." Being n still a ovice in the Patent Medicine Trade, I took se obsertions to represent the feeling of ALL mists, ad acted accordingly; but after having spent ny hund ds of pounds for handbills, advertisements, ples, & I have only now found out the mistake

Is it is, wever, never too late to mend, I herewith dge mylf to alter matters forthwith, and the ncies am gst Wholesale Houses will be at once withwn, and ny other steps which Chemists will kindly gest to 1 for furthering the end in view shall have careful nd prompt consideration, my sole object ng co-opation with the Chemists to mutual advantage the intruction of the above-mentioned high-class paration vhich is not a secret or patent medicine, and uch has en approved of by all leading London vicians, of which have had sample boxes for trial, th particurs of its component parts.

fact, not mentioned in my above-referred-to Circular, that the new preparation,

### APERIENT TAMARIND FRUIT CONSERVES.

which are not subject to the stamp duty, and of which not a single box has yet been sold to the Wholesale Houses, can be supplied with the names of my customers instead of mine, if ordered in quantities of not less than 10 dozen.

As, no doubt, in consequence of the above statements, many Chemists will regret not having written me in time to have the benefit of the terms offered to those who acknowledged my printed Circular before the end of June, I will herewith extend the time mentioned to the end of July; and to those having mislaid or destroyed the Circular and enclosures, I shall be glad to supply a copy on application.

On the other hand, I must also publicly declare that in my other speciality,

# BEST QUALITY WILLOW BOXES,

I must also in the future, as in the past, decline to execute retail orders, unless it is proved to my satisfaction that the Wholesale House which is dealing with the respective Chemist has refused to supply him with my unrivalled "Wheel Brand" make.

This, unhappily, is the case with some houses, whose buyers, for obvious reasons, prefer buying from unscrupulous competitors inferior qualities.

Chemists will in all fairness sanction this my intention, as I owe to the Wholesale Houses, for many years past, my extensive trade in the first-named goods, and it is my wish to do also in future, AS REGARDS WILLOW Boxes, the best I can for them in return.

In conclusion, I beg to state that my advertisements will be continued in all good mediums, so long as required, and Chemists of good standing can, on giving satisfactory references, have the Lozenges on sale or return, until they feel safe in ordering them for their stock; those buying 5l. worth at a time for Cash will, in addition to the special terms offered in my Circular, receive a discount of 10 per cent., allowed hitherto as At the sa; time, I draw Chemists' attention to the commission to the Wholesale Houses.

San les of KANOLDTS APERIENT TAMARIND LOZENGES will be supplied Free on application to the Sole Consignee,

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No. 30, 12/ for 20 fluid ounces. No. 24, 9/6 " " " No. 18, 8/ " "

AND IN doz. Corked Bottles ... 3/6 4/ 7/ 8/ 12/ Sprinklers .... 4/ 7/6 8/ 12/ Stop'd Bottles ... 9/ 12/ 14/ 18/ and upwards.

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Cold Cream Soap, doz, at ablets in box 12/ and 20/ Coal Tar Soap, ditto. 8/ and 12/ Dog Soap 3/6 and 7/ dz. Carpet & Cloth Soap 3/6 and 7/ dz. Carbolic, ditto. 8/ and 12/ Coal Tar (Family) 18/ and 27/ gr., Transparent.do. 8/ and 12/ Carbolic 18/ and 27/ gr., and Carbolic, do. 8/ and 12/ Carbolic 18/ and 27/ and Carbolic, do. 8/ and 12/ Carbolic 18/ and 27/ gr., and Carbolic, do. 8/ and 12/ Lavender. (Sweet), do. 8/ and 12/ Fullers' Earth 3/6 dz. Lavender. (Sweet), do. 8/ and 12/ Fullers' Earth 3/6 dz. Lavender. (Sweet), do. 8/ and 12/ Fullers' Earth 3/6 dz. Lavender. (Sweet), do. 8/ and 12/ Fullers' Earth 3/6 dz. Lavender. (Sweet), do. 8/ and 12/ Fullers' Earth 3/6 dz. Lavender. (Sweet), do. 8/ and 12/ Fullers' Earth 3/6 dz. Lavender. (Sweet), do. 8/ and 12/ Fullers' Earth 3/6 dz. Lavender. (Sweet), do. 8/ and 12/ Fullers' Earth 3/6 dz. Lavender. (Sweet), do. 8/ and 12/ Fullers' Earth 3/6 dz. Lavender. (Sweet), do. 8/ and 12/ Fullers' Earth 3/6 dz. Lavender. (Sweet), do. 8/ and 12/ Fullers' Earth 3/6 dz. Lavender. (Sweet), do. 8/ and 12/ Fullers' Earth 3/6 dz. Lavender. (Sweet), do. 8/ and 12/ Fullers' Earth 3/6 dz. Lavender. (Sweet), do. 8/ and 12/ Fullers' Earth 3/6 dz. Lavender. (Sweet), do. 8/ and 12/ Fullers' Earth 3/6 dz. Lavender. (Sweet), do. 8/ and 12/ Earth 3/6 dz. Lavender. (Sweet), do. 8/ and 12/ Earth 3/6 dz. Lavender. (Sweet), do. 8/ and 12/ Earth 3/6 dz. Lavender. (Sweet), do. 8/ and 12/ Earth 3/6 dz. Lavender. (Sweet), do. 8/ and 12/ Earth 3/6 dz. Lavender. (Sweet), do. 8/ and 12/ Earth 3/6 dz. Lavender. (Sweet), do. 8/ and 12/ Earth 3/6 dz. Lavender. (Sweet), do. 8/ and 12/ Earth 3/6 dz. Lavender. (Sweet), do. 8/ and 12/ Earth 3/6 dz. Lavender. (Sweet), do. 8/ and 12/ Earth 3/6 dz. Lavender. (Sweet), do. 8/ and 12/ Earth 3/6 dz. Lavender. (Sweet), do. 8/ and 12/ Earth 3/6 dz. Lavender. (Sweet), do. 8/ and 12/ Earth 3/6 dz. Lavender. (Sweet), do. 8/ and 12/ Earth 3/6 dz. Lavender. (Sweet), do. 8

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JAMES'S HERBAL OINTMENT, for the Cure of Pimples, Black Specks, Blotches, &c., and taking away Tan Freckles, Sunburn, &c. Sold by all Chemists, 1/13 and 2/9 per box.

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5/6 size, 36/ per doz. 10/6 size, 72/ per doz.

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A PERFECT BOON TO MOTERS One application i guarant destroy all Nits and Parsi Children's Heads, allay the Itching a Thousand Th ROGERS'

Families with the adelighted with declare it to be what A GUI PREPARED LY BY

WILLIAM LOGE

CHES T BEN JONSON ROL STEPHEN Sold in large B es, pri SHILLING. San Bottle

SOLD BY ALL CHEMISTS AND PERFUERS.

Observe! Genuine only in Yellow Wrapper, hite L
WHOLESALE AGENTS.—Barolay & Son; Edwards on; May
& Thompson; Millard & Son; Sanger & Sons; The son, 14
North Road; Butler & Crispe, Cheapside; Hovenden & S

ESTABLISHED 1849.

# CURRY, LLOYD

(Late ALLEN PEARCE & CO.),

# DRUGGISTS'

MAKERS. AND SURGICAL APPLIANCE

BRISTO BATH STREET. 10 17 and

NEW PRICE LIST (1882) WILL BE SENT ON RECEIPT OF BUSINESS CARD.

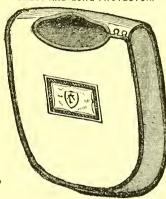
# G.F. SNOOK & SON, WHOLESALE AND EXPORT MANUFACTURERS,

to a w the attention of Druggists' Sundries Dealers and Shippers to the following List of Goods, all of superior quality and finish, of our own manufacture. CHEST PROTECTORS. CHEST AND LUNG PROTECTOR.



Toilet Gloves. Bath Gloves. Bath Straps.

Waterproof Sponge Bags, Nursing



SALMON & ODY'S

Nipple Shields with Teats.

Nipple Shields with Tube and Teat.



ELASTIC STOCKING. Gutta Percha Tooth Stopping.



Aprons. Children's Bibs. Crib Sheets, Bathing Caps,

&c. Court

Plaster,

Gold Beater's Skin.

Hydropathic Compressors.



Respirators.

CIRCULAR, SINGLE.

FELT BUNION PLASTERS.

CORN PLASTERS

of all kinds. Magnetic

Belts

Gents'

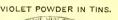
Appliances for

all parts of the body.

Violet

Powder

Puffs.







SUSPEN RY BANDAGES

LADIE BELTS

India Rubber

Urinals.

Breast Glasses.



Braces for Round Shoulders.

SPECIAL QUOTATIONS FOR LARGE QUANTITIES. Price List on receipt of Business Card.

BUYERS OF LARGE PARCELS MAY HAVE THEIR OWN NAME ON ALL OUR GOODS. Agents for Spungio and Impermeable Piline and Oil



PREPARED FULLER'S EARTH

76 & 378 CITY ROAD, LONDON,

Richly Perfumed, and guaranteed to contain the necessary quantity of GLYCERINE for effectually imparting to the SKIN the softening and heal proposed for which it is so justly famed. 1s. 6d. Boxes of Three Tablets, 12s. per Dozen Boxes.

SELECT TOILET PREPARATIONS, extensively increasing in demand, which attests their excellent q lity.

TOILET SOAPS. Per doz.

BOUQUETS. Per doz. POMADES, & Par doz.

POMADES, & Perd Cent-Fleur (copyright) Petroleum Pomade Cont-Fleur (copyright) 2/6 Boxes of 3 tablets 20/ Cent-Fleur (copyright) Jockey Club Bouquet ... In Glass Stoppered 121 121 Jockey Club 116 1/6 12/6 Ess Bouquet ... Brilliantine Sandringham Sprinkling 201 1/6 Anglo Eau de Cologne Eucalyptus Oil Frangipanni ... Wild Thyme (Thymol) 1| Pearl of Perfumes Eucalyptus Vinegar

Semi-Cut Bars " 1| Bars of 6 kinds 8/6 Lime Tree Blossoms ... White Cherry Tooth Paste Trade Price Lists sent and Orders executed through Wholesale Houses, or direct from the Manufacturers & GROSSMITH, 22 SILK STREET (120 FORE STREET), LONDON E.C. WHITAKER

### S USED AT ALL THE COVERNMENT MUSEUMS.

Suited for any substance, from glass and china to leather, wood, or iron, and the articles joined bear washing in boiling water. The large range of materials to which this cement is applicable, its transparency, strength, and facility in use, and the readiness with to its trenders it, without doubt, THE MOST USEFUL EVER INVENTED. It is equally applicable to articles of the coarsest or the most delic construction. The great success which attended its introduction, now more than 20 years ago, has given rise to a host of imitations, under as may around some of these being of an exceedingly crude character, and most unsatisfactory to both vendor and buyer. The above celebrated Cem is units.

prepared and neatly put up, and is guaranteed to remain unchanged in any climate.

Professor ARCHER, Edinburgh.—"I can testify most unhesitatingly to its great utility in the various occasions which continually work for a first-rate Cement. I have invariably found yours superior to all others, and have extensively recommended its use to all my lends."

Sold in bottles at Gd. and 1s. (equal to three of the smaller).

TMPATPABLE AND DELICATELY PERFUME

This unique Powder possesses the emollient properties of fullers' earth, free from colour, and in a high condition of puri

Dr. ALEX. MILNE, Edinburgh, in his recent book entitled: "The Child, and how to Nurse it," says of this favourite powder, "WI

IT IN PREFERENCE TO ALL OTHERS."

Sold in Boxes at 6d. and 1s. Wholesalc at the Patent Medicine Houses and Druggists' Sundriesmen, or from

W. J. FOULKES. OPERATIVE CHEMIST. BIRKEN

OST SALUBRIOUS SOAP

THE BEST ARTICLE IN USE FOR THE PURPOSE. TURNER BRECKNELL

HAYMARKET, LONDON. **ENGLAND** 

## ETCHFORD'S CHOICE PERFUMERY.

DUVAL'S MILK BALSAM for the Hair A Pretty Novelty for ordinary daily use. It has the appearance of Milk,

and is very agreeable in application, without the greasiness of lime-juice preparations. It is not liable to separate, and is put up attractively in large Bottles at 1s., 1s. 6d., and 2s. 6d.

Also DUVAL'S COSMETIQUE.

LETCHFORD'S Transparent Cosmetique, free from grease,

LETCHFORD'S Transparent Cosmetique, free from grease, in several patterns.

LETCHFORD'S Cream of Limes, well known; Lime Cream Pomade, and others.

LETCHFORD'S Orchid Perfumes, "THE" Ess Bouquet, Curious Essence, and all other kinds.

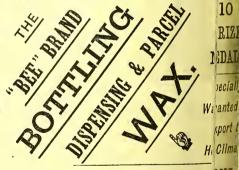
LETCHFORD'S Lavender Water, Florida Water, Eau de Cologne, Toilet Vinegar.

LETCHFORD'S Marking Ink, Cherry Tooth Paste, Glycerine Jelly, Plated Screw Top Bottles.

Teinture d'Or, 5/, Kittoe's Hair Restorer, 1/- and 1/6, Morstatt's Medicated Soaps, &c. [1]

LETCHFORD & CO.,

Wholesale Perfumers, 63 Wilson Street, Finsbury, E.C.



GEORGE WATERSTON & ONS.

Manufacturers of Sealing and Bottling Wax, Wafers, and Offic Lucilage, London, 9 Rose St., Newgate St. Edinburgh, 56 anover

BENARES

The very best for Cleaning and polish Brass, Copper, and Steel ever in roduc of all Iro nong Can be obtained Grocers, and Chemists, at On Shil per Box.

SOLE WHOLESALE AGENTS-

SOUTHWARK, LONE N.

# GUM

by all Chemists in boxes  $1/1\frac{1}{2}$  and 2/9 each, duty included; the 2/9 box is equal to three small ones.

present this Corn Plaister to the notice of the Public as a speedy and radical cure for Corns of every kind, T. C. will only state, in its our that uring the first Seven Months of preparing it, by his own recommendation and of those who used it, without a single critism, upwards of Three Thousand boxes were sold—a fact, he thinks, fully justifying him in giving it further publicity. But he other rpms also; many gentlemen have expressed themselves more speedily relieved and more lastingly henefited by this Plaister than any they we hitherto used, having declared their Corns to have been completely cured in the short space of ten or fourteen days. Mr. T. RIEY irropodist to her late Royal Highness the Duchess of Kent, having prepared and sold this Plaister for over fifty years, begs to use those dies and gentlemen who may feel a delieacy in trying it that in its nature it is perfectly harmless, and in its effects generally certain. MAY BE WORN WITH THE TIGHTEST BOOT.

le Pro ictors, JAMES CORLEY & CO., 38 Alexandra Rd., Addiscombe Rd., Croydon.

Will be sent by post for 14 or 33 stamps.

LEGE.

CREDE.

The fev ollowing honest testimonials should convince the most sceptical. They are selected from an immense number accumulating years, silly as furnishing some proof that these Plaisters were as efficacious in the year 1875 as they were thirty years previously, and that year not paired by climatic changes, heing alike heneficial in tropical, semi-tropical, and more temperate countries.

yars, saily as diministing some proof of the state of the

Hand, Me, United States of America, September at the America, September at the America I would thank you to send me four L-Your mble servant, J. NICHOLS.—TO Mr. g.—N.B. lease direct to Rev. Dr. Nichols, Port-

TRADE MARK.

March 11th, 1851,—Dear Sir,—Will you send me by the steamer from Liverpool ten shillings' worth of your Green Gum Plaisters for Corns and Bunions, as I have found them of immense benefit, and would on no account be without them. If you have an Agent in the United States I will thank you to give me his name, as so many of my friends are anxious to obtain the Plaisters, knowing how they have eured me.—Yours truly, JOHN TAPPEN.

LATER TESTIMONIAL.

From T. S. Talnott, Esq., Foxley Lodge, Romford Road, E., May 3, 1875.—Dear Sir,—Having suffered many years from old and troublesome corns which at times caused me exeruciating agony, and finding no permanent relief from the various remedies tried, I certainly became somewhat sceptical. I was, however, induced to try your Green Gum Plaisters; and I feel it only justice to inform you that I received almost immediate relief, and one box has completely cured two virulent corns-Your splendid remedy deserves wide publicity and the greatest success, Believe me sincerely yours, T. S. TALBOTT.

Immediate Relief, speedy and permanent Cure, if the simple directions are followed.

CORDY'S SOOTHING OINTMENT, Chilblains, Chaps, Ulcerated Sores, &c., for

# LYON BROTHERS' INSULATORS

Sinlest, Cheapest, and Most Effective Preventive and Remedy yet discovered in Cases of

eum tism, Gout, Dropsy, Neuralgia, Sciatica, Lumbago, aly's, Cramp, Sleeplessness, and all Nervous Disorders.

NB.—Sp ally fitted to counteract the relaxing and enervating influences of hot and humid climates on the constitution.

hese IMROVED MAGNETIC INSULATORS are now used and recommended by eminent members of the al Profe on, and there is a largely increasing public demand for them.

they poss superior advantages to Galvanic Chain Bands, and Magnetine Appliances, without the inconce of weing them.

May be obtained direct from the Sole Makers and Proprietors,

### ON BROTHERS, St. Helens, LANCASHIRE.

OR FROM THE SOLE AGENTS (FOR CHEMISTS),

THOMPSON, LONDON. SON &

Cases containing Retail Price, 2s. 9d. per Set of Four.

SH)W CARDS, ETC., APPLICATION. OM.

TESTIMO н

# S. MAW, SON & THOMPSON SUPERIOR QUALITY

# Bath Gloves, Rubbers, &

Gloves.	Straps.	Pads.							
CALEFACIO OR BADEN, No. 1, (Pairs.)									
soft Brown per doz. 6/4	10/8	6/0							
CALEFACIO OR BADEN, No. 2,									
hard Brown per doz. 6/4	10/8	6/0							
CALEFACIO OR BADEN, No. 3,									
soft Brown striped. per doz. 6/8	11/4	6/0							
CALEFACIO (the U.S.), Striped									
soft Brown per doz. 6/8	11/4	6/0							
HONEYCOMB, White. per doz. 5/4	10/8	5/6							

REVERSIBLE, No. 1, one side (Pairs. soft Brown, the other best White Turkish . per doz. 7/012/0 REVERSIBLE, No. 2, one side hard Brown, the other White Honeycomb . per doz. 7/012/0 REVERSIBLE, No. 3, one side Egyptian Loofah, the other best White Turkish, per doz., single 8/0 -

TURKISH THIN WHITE GLOVES, per doz. pairs, 4/- PADS, per d. 4/-

Ditto BEST QUALITY ...

... ,, 5/-

# S. MAW, SON & THOMPSON'S

SUPERIOR QUALITY

# WATERPROOF CHECK SPONGE BAGS.

No. 1  $\begin{array}{ccc}
3 & 4 \\
9 \times 8 & 10 \times 9
\end{array}$  $11 \times 10$  $7 \times 6$  $8 \times 7$  $12 \times 11$  inches. 7/6 9/0 10/6 12/614/616/6 per dozen.

For other descriptions, see Quarterly Price Current, page 99.

# S. MAW, SON & THOMPSON'S BRIGHTON SPONGE BAGS,

WITH BALL CLASP FASTENINGS, NICKEL-PLATED.

No. 8×7 9×8 10×9 11×10 12×11 inches. 16/0 18/0 20/0 26/0 28/0 per dozen. 18/0 20/0 22/0 28/0 32/0 " CHECK... ... PAISLEY

7 to 12 ALDERSGATE ST., LONDON.



# A FEW REMARKS

ON THE

# RITED WATER TRADE

Y . G. WILCOCKS, BATH.

Why should Chemists and Druggists
Aë ted Waters from other makers
ad f manufacturing all they sell
selv? They cannot adopt a more
oprie Auxiliary Trade, nor is there
whic is so sure to yield a good return
ne in stment, or so likely, if conducted
enery, to produce

## A FORTUNE.

the ensumption of Aërated Waters is y on the increase, and Chemists and gists an, if they will, retain the business eir on hands.

ask ny Chemist and Druggist who is ug the to increase his income to unice with me. I shall be happy

to advise with him respecting the erection of a plant, large or small, and will give him all necessary information to

## START HIM IN THE BUSINESS.

I can also satisfy him, by the testimony of hundreds in the trade, that in dealing with me he will obtain just and honest treatment, and that the machinery I supply is of the soundest materials, constructed with the highest skill, and sold at the lowest possible rates of profit.

## EASY TERMS OF PAYMENT.

All Machines sold in England and Wales can be had on my Easy Terms system. That is, the purchaser pays a certain sum monthly for the hire, and after two years the machine becomes his own property. The payments can be easily made out of profits, and when they are completed a profitable business will be established. No Gazette registration is required, and the transaction is strictly private.

## COPY OF UNSOLIGITED TESTIMONIAL.

From W. C. HALLS, Chemist,
ERAL WATER MANUFACTURER,
IDGE STREET, NEWARK.

To Mr. N. G. WILCOCKS,

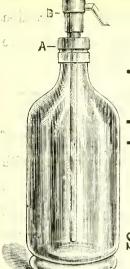
BATH.

it, Unlicited I must express my entire satisfaction with the Machinery you have lately supplied the "Favourite," "Eclipse," Filling Rack, Syphon ditto. I think the "Eclipse" a id inversion, and the waters are well charged. As a whole it is everything that can be desired, can remmend this size plant to any Chemist or Publican who consumes a reasonable quantity ters, as he knowledge requisite to work it is so small. I have had nine years' experience in ade, s feel confident to form an opinion. If this information is of any service to you, you wake us of it.

Yours respectfully, W. C. HALLS.

# I.G. VILCOCKS, ENGINEER, BACK STREET, BATH.

SHORT



# WEST'S PATENT PARAGOI

# SIPHO

14/6 per doz. and Nickel Plate

"A marvel among Siphons."-Vide Press Notices.

Send for Descriptive Circular to

WEST Stamford Works—116, 118 Southwark Bridge Ro

LONDON, S.E.



H. FAVARGER has much pleasure in announcing that, encouraged by the enormous demand last season for the well-known MONDOLLOT SYPHONS, be has made special arrangements for the prompt supply of these convenient vessels. Nevertheless, he would remind his customers, and also intending purchasers, that it is greatly to their advantage to order early, as then the necessary time can be given for an especially well finished article to be turned out. The few following are the leading points of these Sypbons:—

The few following are the leading points of these Sypbons:—

THE TOP is of pure tin, which is warranted to contain no trace of lead, copper or other injurious metal. It is carefully turned and polished.

THE SPOUT is cast in one piece with the top, and not soldered on, so that it is almost impossible to break it off.

It conveyed show also facilitate the

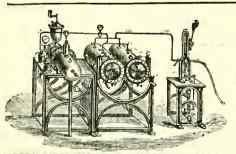
is almost impossible to break it off.
Its curved shape also facilitates the
egress of water, thereby preventing to
a great extent the loss of gas which
occurs whenever the flow of aërated
water is obstructed by sharp angles.
HE LEVER, usually a source of
trouble from constant breakage, is
specially made to resist heavy blows,
being of great thickness and strength
at the point of contact with the head
of the syphon.
HE PISTONS are of pure tip.

THE PISTONS are of pure tin.

PRICES.—Short Lever Cylindrical White or Blue Glass, 26/- per doz. Long Lever Cylindrical White or Blue Glass, 27/- per doz. Special terms for large quantities. Name on head free. Silvering from 12s. per dozen. Nickeling by new process, 4s. per dozen. For Samples and further particulars apply to

H. FAVARGER, 75c TURNMILL LONDON.





# SODA WATER M

ALL KINDS.

# PATENT STOPPERED BOTL

ALL KINDS.

EITHER

SODA WATER MACHINE COMPLETE, WITH RACK. REQUIREMENTS OF

SEPARATE CATALOGUES, POST FREE.

BEFORE BUYING, SEND FOR CATALOGUE TO

DAVENPORT & CO., 99<sup>N</sup> High Holborn, LOIDO

CHEAVIN'S FILTERS.
WILKINSON'S PATENT BEER BD LES. HAYWARD TYLER & CO.'S MACHINERY.
B' RRETT'S PATENT BOTTLES, CROSSLEY'S AND "BISSCHOP" GAS ENGINES.

# AYWARD TYLER & Co.

NERATING MACHINERY





Double wheel, Fig. C.

Lither arranged as shown, or with wheels set back to as to feed from back of trap.

With a breaking heads and 24 rinsers and stop valves PHICE 130 0 0

Double wheel. Fig. D

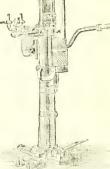
Double wheel. Fig. D

Extra large wheel to hold 2 gross. Fig. E

able brushing bead and double set of rungs. Price. 215 to o

64 & 85 UPPER WHITECROSS STREET LONDON





# LTIES IN BOTTLES AND STOPPERS.

GLASS, EBONITE, PORCELAIN, &c. DISC BOTTLE.

WITH NEW PATENT PURE RINGS, SIMPLE, PERFECT, UNIQUE.

Likely to supersede all other Patent Bottles.

The Disc effectually covers the rubber when the bottle is filled.

These Bottles and Ebonite and Porcelain Discs can be supplied cheaper rate than Prepared Glass, as No. 1.

THE SCREW STOPPER & BOTTLE, For Ales, Porter, Cider, and Brewed Beer.

The Screw Stoppers can be attached to the necks of the Bottles by a band of wire and a small chain, if preferred; price about 3s. 6d. extra. See Fig. 4. When bottling, the Stoppers must be wetted before screwing them in. Screw it gently but firmly home. They should not be subjected to the action of any strong alkali, or great heat, and are not recommended for bettling spirits at present.

for bottling spirits at present.

Essential and Indispensable for every Refreshment Room Proprietor, for every Hotel and Public-house, and for every Householder.

Our other, and well-known Stoppers, &c., still supplied as usual.

SAMPLES ON APPLICATION.



A ORIGIAL AND WELL-KNOWN STOPPIS HAVE NOW BEEN IN LE FOR YEARS BY UP ARDS OF 1,000



MINERAL WATER MANUFACTURERS AND OTHERS THROUGHOUT UNITED KINGDOM AND THE WORLD.

ARRE T & ELERS, 18a Charterhouse Buildings, Goswell Road, LONDON, E.C.

YORK,

1879.

AD AID

A SAVING OF MATERIALS, TIME, & MONEY!

# HALLS'S

FOR MAKING AERATED BEVERAGES.

Acidulated Ginger Beer Essence, 8s. per gal.

(The cost of Syrup complete, 2/6 per gallon.)

Ginger Ale (The cost of Syrup complete, 2/6 per gallon.)

Horehound

(The cost of Syrup complete, 2/6 per gallon.) Lemonade

(The cost of Syrup complete, 3/ per gallon.) Orange Champagne ,, 13s. (The cost of Syrup complete, 3/2 per gallon.)

etc., etc.

One pint of Essence mixed with seven pints of plain Syrup (4) lbs. Say's Sugar) will form perfectly bright Syrups of unsurpassed flavour.

### WARRANTED PURE.

Use \(\frac{3}{4}\) oz. Syrup for Splits \(-1\frac{1}{2}\) oz. Syrup for full size. PREPARED BY

C. HALLS.

CHEMIST, AND MINERAL WATER MANUFACTURER.

NEWARK-ON-TRENT.

ENGLAND.

N.B.-Cash with Order, or on receipt of Invoice.

Prize Medals-

SYDNEY, MELBOURNE, 1879. 1880.

### BRITISH SYPHON MANUFACTIRY EUGSTER & KOERTGEN, Preprietors

2 Gresham Buildings, Basinghall Street

LONDON,E,C WORKS: LAMBETH, S.E.



SELTZOGENIS. 3 pint size, wire, 13s.; cane, 18s. 6d
5 ,, ,, ,, ,, 18s.; ,, 19s.
8 ,, ,, ,, 30s.; ,, —

Silverplated top or wire, 5s. extra. Drop Cups, Measures, &c. LIBERAL DISCOUNT FOR QUANTITI

IMPORTANT.

In ordering our Seltzogenes through enta distinctly state that you require the "I and Shield" Brand, and see that get it, as often and see that get stamped thus:

GUARANTEED first-class

### SYPHONS.

Short Levers, 22 6; Long Levers, 24/per dozen net.

WHITE, BLUE, AMBER, OR GREEN BOTTLES. CYLINDRICAL OR OVAL SHAPED.

SILVERPLATED TOPS FROM 8s. PER DOZEN EXTRA. Name stamped on metal tops free for one gross.

Name and Trade Mark engraved on the bottles by the acid process from 1½d, to 2½d, each extra.

### Soda Water Machinery.

NEW AND IMPROVED CONTINUOUS APPARATUS With one or two Pumps.

OBNERATORS, WASHING VESSELS, GASOMETERS, SYPHON FILLING AND SYRUP DOSING MACHINES.

### IMPROVED STOPPERED

For Mineral Waters and Gaseous Liquids. Are now used by upwards of 900 Soda Water Manufacturers

in the United Kingdom.

PRICES (Per Gross) - Patent Stopper, as per Fig. 1, 4/6; ditto, as Fig. 3, 4/6; ditto, as per Fig. 4, 4/6; Patent Stoppered Bottles, ready for use; ditto Half Bottles ditto; Patent Unstoppered Bottles; ditto Half Bottles; Fig. 9 Boxwood bottle Openers, polished, 8/6; ditto, fitted with rubbers, 1/6; Common Wood Bottle Openers, 5/6; ditto, fitted with rubbers, 7/6; Fig. 10, New Bottle Opener, 6/-.

ROYALTY FREE.





Fig. 1 Stoppers, when invoiced separately, are ready fitted we the rule washer on, and are easily inserted into the Bottle by the simple rure of thumb, the washer at the same time folding in the hollow part of the washer as the same time folding in the hollow part of the Bottle with; and when a Bottle breaks, which seldom ceut his always fitted with this washer, ready to be inserted in a new Bot it is the most durable and inexpensive Stopper in the trade.

ADVANTAGES.—These Stoppers cannot break the Bottles, surface of ind arubter ever exposed to the liquid of any Stop out of the surface of the distribution of the surface of the distribution of the surface of the first of the surface of the surface

It having come to my knowledge that certain parties conve t with great and acknowledged superiority of my Patent Stopper, have permote the reasons to constitute a clear case of infringement upon my r. s. I said to be know that I Intend to take such steps against the said parties may a desirable, should this notice not be effectual.

Sample and Particulars sent on application to

L. VALLET, 49 EVERTON RD., LIVIPOOL

**FOREIGN** 

### MINERAL WATERS.

FREDERICKSHALL (5 Cases, 6d, per Case less), 24/6 Case, 30 bot.; 34/ Case, 60 3-bot.

APOLLINARIS WATER, 25/- Hpr., 50 bts.

Ham/ers free
5 per cent. discount if 20 Hampe s.

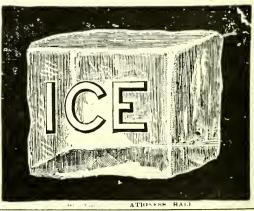
HUNYAD1 JANOS (10 Cases. 3/- and 5/- less),
30/- Case, 25 bts.; 50/- Case, 50 ±- bts.

SELTZER ... ... 11/- Hpr., 25 bts. ... 15/- Hpr., 50 ½-bts. PULINA ... ... 18/- Care, 20 bts. ... 30/- Case, 50 j-bts.

VICHY... -- 31/- , 50 bts. -- 27/- , 50 ½-bts. CARLSBAD ... KISSENGEN - 37/- , 50 bts.

KISSENGEN ... SCHWALLBACH ... 27/6 ,, 50 ,, HOMBURG ... ... -- 37/6 ,, 50 ,, 40/-

WILDUNGEN ... 40/- , 50 ,, CARLSBAD SALTS, 1-Bots., 20/- per doz.; 1-Bots., 40/- per doz.; Bot., 80/- per doz.



# NORWAY BLOCK IC

Packing and Mats for Origina locks for 3d. each allowed for Mats i turned.

PRINTED DIRECTIONS & STORE ICE sent free on applic a.

W. B. HARRI)N,

IMPORTER OF ICAN MINERAL WAERS,

6 Bridge Street, Suisrland



# H. FAVAR

has much pleasure in informing those contemplating entering the Soda Water business that new and extensive plant has just been laid down for producing, in large numbers, the various sizes of



# DDA WATER MACHINES

THE PATENT MONDOLLOT SYSTEM.

chi features of which are the entire suppression of the Gasometer, economy of materials and space, and saving of labour. Repry Machine is fitted with two large Purifiers, in which the Gas is thoroughly cleansed from all impurities and is allowed to expand itself.

In is system there is

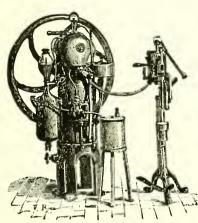
No Gasometer.

o danger of Explosion.

NSkilled Labour required.

No p vious knowledge necessary.

"The is no ordinary generator or asome in connection with this machine, ad thein lies the secret of its advantage ver thordinary English Machines. - The liner Vater Trade Recorder and Advocate.



These Machines are

The Cheapest.

The most compact.

The most simple to work.

The most reliable.

"When explained it is simplicity itself .... The fact of the economy of skilled labour and the saving of materials being the chief and most important points,"-The Mineral Wut r Trade Review and Guardian.

These Machines are made to any size, but the most usual in demand are-The "GEM" (No. 0, price £28).

is is a mall but complete plant in itself, which is capable of making upwards of 100 dozen of first-class aërated waters in the day. It is sent out tested and fitted ready for work, and is accompanied by all the necessary accessories.

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(Signed) JAMES DEAN.

The "MEDIUM" (No. 1, price £46).

a very seful size, comprising the whole apparatus for producing 150 dozen of first-class aërated waters daily. It consists of autoric generator fitted with water safety-valve, gun-m.tal pump, copper saturator heavily tinned, copper purifier, glass rifier, assure and water gauges, and it is sent out complete, with solution pan fitted with glass ball cock and stand, spanners, funnels, and all accessories.

Mr. H. VARGER.—Dear Sir,—We have much pleasure in stating that the Soda Water Machine we had from you about three n outsine.

We also find your double filling machine a great improvement to the one we had previously been using.

We are, dear Sir, yours very truly (Signed) JOHN SARSON & SONS.

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similan every detail to the "MEDIUM," but it is larger in every respect, and is made to turn out 300 dozen of the finest aërated waters in a day. It is sent out complete with all accessories.

Mr. H.

PABORR, Desr Sir,—It affords us great pleasure to testify to the perfect manner in which your machinery ('yee No. 2) shoulded to us has hitherto answered days as the construction of the construction of the construction of the construction of the carbonic acid being forced into the water in the market, as it is the only one that obvittes the necest two a Gas-meter and Gas-Kowage, and the days as more that, owing to the carbonic acid being forced into the water in the maskent term, we are able to bottle at a much lower pressure than those who under the days as more that, owing to atmospheric variation is frequently in a rarefield form and necessarily of less strength. Although your assential cars to the un'nitiated to be complicated, it is in use found to be most simple, (asily understood and managed. The machine you sampled to us has now as well-were remain, yours tativifully.

(Signed) C. D. BARKER & CO., Chemists and Mineral Water Manufacturers.

(Since this report was written the machine has been working perfectly.)

HE ABOVE SIZES ARE THE MOST SUITABLE FOR CHEMISTS.

full prticulars of the "STANDARD" and all larger sizes on application.

EVERY MACHINE GUARANTEED.

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First introduced by EUGENE GERAUT & Co. in 1853.

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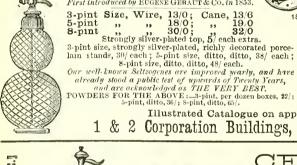
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Son-in-Law, Manufacure 

WHOLESALE PRICES. 12s. 0d. each. 3 pint, wire covered

Celebrated D. Fèvre Seltzogene.

3 pint, cana covered pint, wire covered 5 pint, cane covered 8 pint, wire covered

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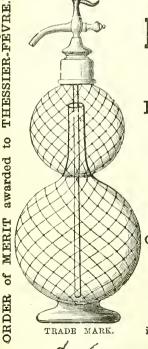
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IS MACHINE HAS EARNED A WORLD-WIDE REPUTATION. (N COMPARISON WITH OTHERS IS PRE-EMINENT.

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- With less pressure in the cylinder.
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HAVE IT IN YOUR HOUSES AND TRAVELS, USING NO OTHER SALINE; it gives instant relief in Headaches, Sea or Bilious Sickness, and quickly cores the worst form of Eruptive or Skin Complaints. The various diseases arising from Constipation, the Lalver, or Blood Impurities, Inoculation the results of breathing air infected with Fevers, Measles, or Smallpox, are frequently prevented and

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The sale of these Saline Salts having greatly increased during the past few years, I heg most co dially to
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Our Machines are universally adopted throughout the world for the manufacture of all kinds of Aërated Drinks, whether in bottles, syphon, or counter fountains. There are in England alone over 1,500 factories where

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All our Machires have a Gasometer, and it forms a most important necessity where purity of product is required, as it is the first expanded and purified; it also removes the possibility of explosion, and avoids the necessity of complication—these will greater importance than the saving of a few inches of floor space.

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WEST INDIAN LIME FRUIT. PRODUCT THE

IIS is n recognised as the best Lime Juice preparation in the market. It is a delicious Syrup, most cooling and refreshing in its tracter, perfectly divested of the musty flavour so objectionable in these preparations generally. For Home or ort Trait is equally well adapted, as it keeps for any length of time, always gives satisfaction, and commands a large sale rever it introduced.

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IN CHAMPAGNE QUARTS AND PINTS, AND IN BULK.

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superior lality of these Essence, hoth in gth and our, ensures their preference to of any our maker when once introduced. preparedirect from Fresh Spices, Herbs, s, &c., tl persess the true and gennine ir of the rticle, and are unequalled for y and excence.

ence of Imonds, Celery, Cinnanon, Cyes, Cochineal, Ginger, lemon, Mixed Spice, Noyeau, range, reach Kernels, Peppernint, Re fia, Vanilla, &c., &c.

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The established reputation we have secured through the excellency of our LIME FRUIT SYRUP, PURE FRUIT SYRUPS, and FLAVOURING ESSENCE\*, induces us to bring more prominently under the notice of Merchant\*, Shippers, Storekeepers, and Foreign Agents, our LIME FRUIT SALINE as an article specially suited for Export Trade. To meet the requirements of the various markets, the directions are printed in English, French. German, Hindostani, Portuguese, and Spanish, thus affording a wide range for its introduction. The established reputation we have for its introduction.

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Prepared direct from FBESH FRUIT, &c., and handsomely put up in Champagne Pints

Cherry, Current, Black, Currant, Red. Jargonelle Pear, Lemon, Orange, Pineapple, Raspberry, Strawberry,

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A pec jarly pleasant and refreshing Saline, possessing the valuable properties of Lime Fruit, and highly recommended by the Medical Profession.

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CAUTION—Circumstances which have come to the knowledge of Andreas Saxlehner, Buda Pest, Sole Proprietor of the Hum Jinos Spring, compel him to warn the British Public against SPURIOUS IMITATIONS. To secure gennineness, purchasers should see that every the him to warn the Label the name of "THE APOLLINARIS COMPANY (LIMITED), London."

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CORAZZA, 8 Adelphi Arches, STRAND, LUIGI

This acidulous and ferruginous Mineral Water, furnished by the Springs of Rocouro, Italy, has been submitted to a very full and care Analysis and found to possess the following composition in 100,900 parts. The constituents are, for the most part, combined as follows:-0.131 121 59

Chloride of Sodium ...
Sulphate of Soda.. ...
Sulphate of Potash ...
Sulphate of Magnesia ...
Sulphate of Line ...
Nitrate of Lime ...

Carbonate of Lime ... Carbonate of Iron ... Carbonate of Manganese Alumina Silica

One Litre (1,000 cubic centimetres) contains 873 cubic centimetres of Carbonic Acid Gas in solution. It is apparent from the results of Analysis that this Water contains as its principal constituents—Carbonate of Lime, Sulphate of Lime, and Sulphate of Magnesia: these substances associate with smaller, but not inconsiderable amounts of Alkaline Salts, while an important feature is the presence of a counderable quantity of bonate from interpreties. Any astringency to which the Iron might otherwise give rise is more than counteracted by present of Sulphate of Magnesia, which tends to produce a contrary effect and give the Water slightly aperient qualities. This Water possesses as 2, refer into and slightly metallic flavour, and, from the Carbonic Acid Gas which it holds in solution, it appears bright and sparkling when poul from the bottle. It is practically free from organic matter. From the composition and characters of the Recoaro Mineral Water, it is evidently not ly highly valuable for Medicinal use, but as a Beverage for ordinary consumption, either alone or when mixed with Wine, Spirits, &c.

ARTHUR HILL HASSALL, M.D., London,

May 16, 1882.

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SODA, POTASH, SELTZER, AËRATED (without Alkali), and LITHIA WATERS, LEMONADE AND GINGER ALE.

Each Bottle is protected by a Label bearing the Signature of the Firm.

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Manufacture all kinds of Aerated Waters om thi celebrated Artesian Spring.

Dr. ANDERSON'S Tissue Phosphate Ton Water an Aërated Tonic Beverage containing all the A eral All ments of Nutrition (no Iron), and assisting Dige on in most marvellous degree.

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nterational Food Exhibition, Agricultural Hall, London, October, 1880.

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(Guaranteed Pure and Free from Capsicum).

Tade Price, 5s. per lb.; 12 lbs. and upwards, 4s. 6d.

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Medical Opinions on HAY' Soluble Essence of Ginger.

ngularly e from resin."—The Lancet.
should circly supersede the officinal preparation
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Ht'S Ginger Champagne.

"Maxcellent i most agreeable beverage."—The Lancet.

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"A sed Jama Ginger, takes rank as a pure, wholesome, ating, an on-alcoholic beverage."—British Medical



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"An excellent effervescing drink."-The Lancet.

"Preferable to some wines we have tasted under the name of champagne."—Medical Press.

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"Has the purest Jamaica Ginger aroma, distinguishable as soon as poured out. It is a beverage fit for any gentleman's table, and ought to attain great popularity."—The Chemist and Druggist.

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Essence, hich is an addition of Vanilla, Lemon, and other flavours to the above, is strongly recommended for the Ginger Beer, Wines, &c., to which it imparts with the Ginger a Peculiarly Fine Fruity Flavour and Aroma.

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Specially adapted for the Manufacture of the FINEST

GINGER

Essence strongly recommended for the manufacture of the finest Ginger Ale and Ginger Beer. It imparts, with the site Gin'r Aroma of the first mentioned Essence, a peculiarly fine fruity flavour combined with the fullest amount of fragrance and pungency.

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CONCENTRATED. This sence is a complete Bouquet of the finest Ginger, Lemon, and other flavours, in a highly concentrated state.

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Extract is rongly recommended for the manufacture of Ginger Ale, to which it imparts an unusually Fine Flavour and Great Brilliancy, at a cost of a little under 1d. per dozen bottles.

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HAY CATIONS THE TRADE against the use of those spurious so-called SOLUBLE ESSENCES thich, bes es having NO GINGER AROMA, are FLAVOURLESS, RANK, and DISAGREEABLE, and are little more than TINCTURES OF CAPSICUM.

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INGRAM & ROYLE, 119 Queen Victoria Street, LONDONE. AND BATH BRIDGE, BRISTOL.

Price, in Half Champagne Bottles, 5s. 6d. per dozen.

This SPARKLING, EXHILARATING. and REFRESHING DRINK, while being far more agreeable in bouquet and flavour than the FINEST CHAMPAGNE WINE. is, at the same time, unlike it, FREE from ALCOHOL.

Samaritan Free Hospital, Lower Seymour Street

Samaritan Free Hospital, Lower Segmour Street,
Portman Square, London, W.
Dear Sir,—I have tried your Ginger Champagne, which I find
t be excellent, and I look upon it as a step in the right direction
towards meeting a long-felt want. Our Senior Physician, Dr.
Henry Savage, has also tried it, and is much pleased with it. We
ought long ago to have had such a beverage, and I believe that a
great deal of drinking would thus have been prevented. I wish
varue fort much success. your effort much success.

ich success.

I am, dear Sir, yours faithfully,
GEORGE SCUDAMORE, Secretary.
52 Montague Square, London, W.

Sir,—I am able to state that your Ginger Champagne is excellent aud most refreshing. It will, I trust, supersede those cheap alcoholic drinks that meet us at many inns and railway stations, and which are often the only drinks to be had. In providing this beverage you have greatly assisted the cause of temperance, and I shall recommend it largely.

C. H. F. ROUTH, M.D.

It is strongly recommended both for Juniles a Adults, &c., as the most Wholesome imulati Beverage that has hitherto been introduced and show be in every household during all seasons the ye

19 Oxford Terrace, Hyde Park ondon, I have tried Hay's Ginger Champagne and like i ktreme consider it is infinitely superior to the numerous non-sholld ages now so largely advertised. It is an invigoratin d retre tonic beverage, and, as such, I can confidently recored it. W. DOMETT STONE, M.D., Phys. Finsbur /speas

An excellent and most agreeable beverage.—The letter Made by Mr. Hay, of Hull, with his well-k m Son Essence of Jamaica Gincera, takes rank as a PU WHOLE STIMULATING, and NON-ALCOHOLIC beverage.— Ha Journal.

One of the most delicate and wholesome drinks i he wark

Medical Press.
This is a beverage which the practitioner can safe commen

Medical Times and Gazette.

Mr. Hay, of Hull, deserves abundant success with his Gin Champ
It is an exhilarating, wholesome, and very agreeable werege-Chemist and Druggist.

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PURE SODA, SELTZER, POTASH, LITHIA, &c., LEMONADE, TONI. GINGER AND QUININE ALE,

Prepared and Bottled specially for Export, and warranted to keep well.

Manufactured with the utmost care and by improved machinery, these productions are recommendation for purity and excellence of quality by many leading members of the Medical Profess and have for many years had a preference by the public; the flavour of the Lemonade at Ginger Ale being procured from the fresh Fruit and Finest Jamaica Ginger, they if for invalide for invalids.

The Soda Water is absolutely free from any metallic impregnation, and being by impred machinery highly charged with Carbonic Acid Gas, and each bottle containing a definite and unvariance of Physics Carbonic Acid Gas, and each bottle containing a definite and unvariance of Physics Carbon of proportion of Pure Carbonate of Soda, J. & B. have every confidence in inviting a trial fi those who have not already patronised them.

The Seltzer, Potash, and Lithia Waters are prepared with the utmost exactitude and purest ingredients.

The New Quinine Tonic furnishes a pleasant form for the administration of a most value restorative, and is refreshing and agreeable.

Ginger Ale (Aromatic) of superior quality, and strongly recommended as a Non-Alcol c and warm stimular t beverage.

N.B.—Every Bottle is protected by a distinctive Label, with Name and Trade Mark, and each Cork is branded.

Counter Bills and Analytical Reports, with Agents' Names and Addresses, suppli when requested.

quality, bition of ester, on Medical for superiority of qualit cown at the Exhibition College, Manchester, Banitary

JEWSBURY & BROWN, 44 Downing Street, 3 Grosvenor Street, and 113 Market Street, MANC ESTA

# CAUTION.

having to caution the trade ust apr ous imitations of this article, most of which being mere rubbish.

PRIECTED BY ROYAL LETTERS PATENT,

product a Permanent Head of Creamy Richness on nger B , Ginger Ale, Lemonade, and other Aërated Beve ges; also on Beers, Ciders, Wines, &c. 2s. 6d. per lb.

MAKES AND VENDORS OF EFFERVESCING RINKS AND TO THE PUBLIC GENERALLY.

he Highburt of Justice-Chancery Division-on Thursday, une 10, 10, before Vice-Chancellor Sir C. Hall, an application nade in action of Bush v. Young to commit the defendant son for debeying an injunction whereby he had been restrained elling, parting, or publishing a recipe, which is an infringe-of a cert, patent known as "Gum Extract," the property of aintiff, vich is used in the mineral water trade for giving a head doam to ginger beer and other beverages; the defenblished and sold a recipe for the preparation of the compour under the name of "Compound Fluid of Saphacatobe vd for the same purpose. The defendant resisted on cound the bark used by him was not the same as that by the platiff, being known as "Panama Bark."

plaintiphowever, proved that this was in fact the same, and our grad the injunction. The defendant also threatened to the recent the unless it were bought up by the plaintiff.

lordshi hade an order that in default of defendant paying

sts, he sald stand committed to prison.

rsons in inging the above patent, either by selling or using, l be pro ded against, and those who give information of h infrinment will be liberally rewarded.

# W. J. BUSH & CO.,

Distillers and Importers of

Essential Oils & Fruit Essences,

SPECIALITIES FOR ASKATED WATER AND CORDIAL MANUFACTURERS,

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EXTRA SUPER QUALITY,

The ONLY PURE ESSENCE imported, made at our Works at Sicily.

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SOLUBLE ESSENCE GINGER. SOLUBLE ESSENCE OF PEPPERMINT.

OF SPURIOUS IMITATIONS. BEWARE

W. J. B. & Co. caution the Trade against the so-called Soluble Essences now so frequently offered for sale, which are nothing more than mere Tinctures; and although offered at lower prices, cost 5 or 6 times as much in use, whilst imparting a strong medicated flavour.

NONE OTHERS ARE GENUINE.

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emon Orange, Raspberry, Strawberry, Per, Pine Apple, and Ginger, FOR THE MANUFACTURE OF

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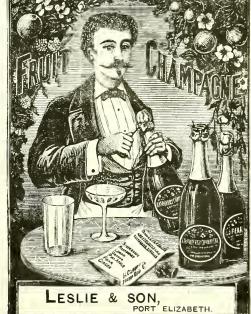
A Manufactured solely for the Patentees by

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Paced in 1, 2, and 5 lb. bottles.

Price, 4. 6d. per lb. net, including bottle.



partic ars as regards cost of licence, machinery, &c., for the manufacture of above, may be had on application to Messrs. Barnett & Foster, or

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AND IMPORTANT DISCOVERY.

GINGER.

Jamaica Ginger. from Pure Jan Intoxicating. THE



FELY PURE.—
7 Drs. J. H. HASSALL,
O HEHNER, F.C.S.

Soda, Potasa,

The difficulty of using Ginger in the Manufacture of "Ginger Ale," and at the same time having a CLEAR and SPARKLING DRINK, has, after much labour and expense, been thoroughly overcome by

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"ABSOLUTELY SEE ANALYSIS. Sent post free on application.

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### Seltzer, Lemon-ade, also Water without Alkali. For GOUT, Lithia Water, & Lithia & Potass Water.

CORKS BRANDED "R. ELLIS & SON, RUTHIN," and every label bears their Trade Mark. Sold everywhere, and wholesale of

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SODA WATER. SELTZER. POTASH. LEMONADE. [THIA. &c.

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A copy of Professor Attfield's Report will be forwarded by post on application.



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For the clarification of all liquids, hot cold in large or small quantities.



Class B. Tinned. Copper. Price from 50% Bijou A & C Class. All Earthenware. from 12 6.

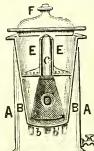
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These Filters do well and quickly what jelibags ! funnel filters do badly and slowl

From THE CHEMIST AND DRUGGIST, March 15, 1882 :- he two objections to funnel-filtering are that the liquid finds its expractical the apex of the cone only, and that the filter is always liab break Maignen's 'Filtre Rapide' these difficulties are perfectly puded as and great speed is attained along with perfect filtration."

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Section of "Cottage" and Bijou D" Filtre Rapide for Water.

These WATER Filters entirely different from all other filters hitherto brought before the public.

They render the water filtered absolutely pure, and they can be easily and theroughly cleansed by the users themselves.
They have been awar-

ded the only medal ever given by the Sanitary Institute of Great Britain for filters, and have had the highest award at every exhibition at which they have been shown.

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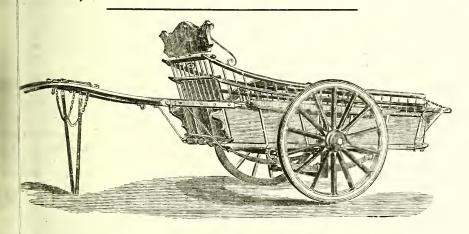
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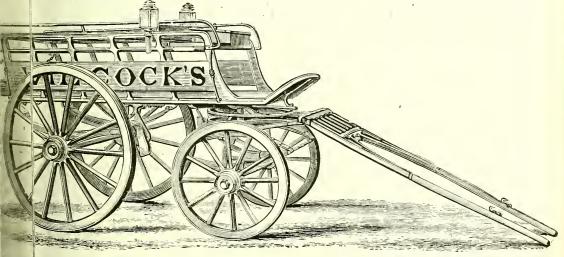
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In Tins, 6d., 9d., 1/0, and 1/6.

Is by far the best in the market. Excellent in quality, neatly packed, cheap and economical, and a very saleable article.

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Wherever this superior preparation is introduced, Chemists find a ready and increasing sale.

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MAWER'S TARAXACUM COFFEE. — Testimonial. —
"Lady Charlotte Hobart-Hampden has bonght Mr. Mawer's Taraxacum
Coffee for over a year and a half, and is able to say that it is much preferred
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Hampden House, Bucks."

See Analytical Report by Professor Attfield, F.R.S., &c., Professor of Practical Chemistry to the Pharmaceutical Society of Great Bi in, on a Handbills, &c., sent on application to

Mawer's Taraxacum Coffee to be a very useful preparat for per fering with weakly stomachs or sluggish and inactive rs. It is and easily digested, and forms a pleasant and palatable crage fact fast or supper."—HENRY R. RUCKLEY, L.R.C.S.I., L.R.C. E., &c., is

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WALKER & DALRYMPLE'S

W BROKEN LEAF TEA, 1s. 8d. per lb.

A MONEY SAVING TEA. ABSOLUTELY PURE.

The small leaf from some of the finest India and China Teas. Pro

a Tea in the cup, stronger, richer, and cheaper than most whole-leaf Agents appointed, where unrepresented, throughout the United Kingdom.

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Order a small Sample Parcel. The Quality nev deter

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Medicated Lozenges, Refined Liquorice, Jujubes, and every description of Confition

IMPORTERS AND MANUFACTURERS OF LEMON, ORANGE, AND CITRON PEELS. CONFECTIONERY EBOR

Lozenges of all descriptions made from Customers' private formulæ (or ingredients), and ampet any name or device.

Specialities—Cough, Peppermint, Rose, Musk, Boquet, Cachou, and all kinds of Medicate Lozen PRICE LIST ON APPLICATION. ESTABLISHED 1843.

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tMISSON Granted to T. B. PERCY to continue the Manufacture of his DANDELION COFFEE cithout effering in any way with the Mixture as certified by J. H. Collins, Esq., F.G.S., Public Analyst for the of Corn Il and City of Truro.

### LETTER. OFFICIAL

10 Downing Street, Whitehall, Lendon, May 17th, 1882.

Sir, Mr. Ladstone desires me to say, with reference to the letter of Mr. Percy, which you sent here on the 15th inst. that the Board of wenne whot interfere with his manufacture of Dandelion Coffee, if the proportions stated by him are adhered to, and the duty thereon duly m, dear a yours faithfully, Pendary Vivian, Esq., M.P.

rauted e Best Article of the kind in the Market. Sold in tins, at 3d., 6d., 9d., 1s., and 1s. 6d. each, by all dealers in A Valble Agency. Special Terms to Large Buyers.

ALL COMMUNICATIONS TO BE ADDRESSED T0 THE MANUFACTORY. TRURO.

astle quare, SWANSEA; 12 Arthur Street West, LONDON BRIDGE; and 10 Old Corn Exchange, MANCHESTER.

Be reticular in noting London Address, as we have no connection with a Retail Firm of same name.

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# BEER POWDER

IS A POWDER.

ledged to the best and cheapest in the Market, gives universal satisfaction, allows a fair profit to the Retailer, will keep in good condition mate. A breepenny Box is sufficient for 3 Gallons of Ginger Beer, and is sold only in 3d. Boxe. Price, 24s. per gross, less discount.

Sole Maker—J. W. WRIGHT, Chemist, BURNLEY.

ALB AGE s—Hovendens; Evans, Lescher; Burgoyne, Burbidge & Co., London. Evans, Sons & Co.; Jackson, Liverpool.

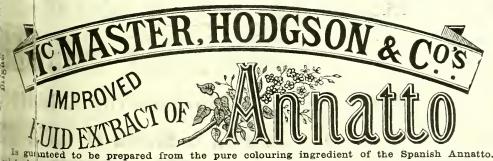
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Cheese.

Analy and recent investigation prove that it possesses the highest degree of colouring power, perfectly clear, and a superior and brilliant tint.

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McMA ER, HODGSON & CO., DUBLIN, Copyright Proprietors and Sole Manufacturers.

AUTION - one genuine unless the Copyright Proprietors' Name-McMASTER, HODGSON & CO.-is on each label. ONDON ENTS:—Messrs. Barclay & Son, Crosse & Blackwell, Edwards & Son, Hovenden & Son, Lynch & Co.
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# LIEBIG'S EXTRACT OF MET

7-ib. tins, 7/- per lb., 49/- per doz. 4-oz. jars, 7/9 per lb., 23/3 rdoz 1-lb. jars, 7/6 , 87/- , 45/- , 1-oz. jars, 8/3 , 12/4  $\frac{1}{2}$ -lb. jars, 7/6 , 45/- , 6/9 ,

10 per cent Discount off 50-lb. Orders. 10 lbs. Carriage F.

E. LAZENBY & SON 16 EDWARDS STREET, PORTMAN SQUARE, Sole Proprietors of the Celebrated Receipts and Manufacturers of the Pickles, Sauces and Condiments so long and favourably distinguished by their name, beg to remind the public that their labels are affixed to the choicest description of goods only, that every article prepared by them is guaranteed as entirely unadulterated and may be obtained of Grocers, Italian Warehousemen and others.

HARVEY'S SAUCE.—CAUTION.—The admirers of this Celebrated Sauce are particularly requested to observe that each bottle bears the well-known label signed "ELIZABETH LAZENBY"; this label is protected by perpetual injunction in Chancery of the 9th July 1838 and without it none can be genuine.

18 TRINITY STREET, LONDON. S.E.

Elizabeth Lazenby

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BRAND & CO.

The Original Manufacturers of Essence of Beef (green label under wrapper), and other Specialities for Invalids, have

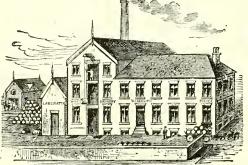
### NOT REMOVED

From their SOLE ADDRESS, No. 11 LITTLE STANHOPE STREET, MAY-FAIR, W, and caution the trade to

BEWARE of IMITATIONS



# NOTICE OF REMOVAL



THE LABORATORY, CHURCH STREET.

BENJAMIN ROBINU

Manufacturing Chemst,
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PENDLETON, MANCHESE

Has Removed to his Newly Erected remi

CHURCH STREET, PENDLET(N

Where he is carrying on his Wholesale and Shipping Trade in British Wines, Concentrated Medicated ters.

ORANGE WINE, B.P., specially made for Quinine Wie-

TERMS ON APPLICATION.

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ENRI WIGAN & CO.'S

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SNGLASS

IRY WIGAN

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# MUSTARD.

# Qualities

de fro the finest mustard seeds only. mpouls, as manufactured for upwards ury, a guaranteed free from all ingrenparti; spurious heat, and are thereally suable for both table and medical purposes.

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VAI HOUTEN'S COCOA

guaranteed ure Soluble Cocoa, hetter and cheaper than any

Guaranteedure Soluble Cocoa, hetter and chearer states of Cocoa Extr., or any Chocolate.

A Medical arma!, March 27, 1869, says:—"Van Honten's arma! March 27, 1869, says:—"Van Honten's arma! wour it is perfect, and it is so pure, well predict maked." &c. &c. See also the Lancet, &c.

Weight) in 1, ½-lb., and ½-lh. Tins, at 4s., 2e. 1d., and 1s. 1d.

J. sufficient. a family, free of charge, through your Grocer.

guee-H. E. HWEGE, 6 & 7 Coleman Street, London, E.C.

# X TOADVERTISEMENTS.

See Figes 23 and 24.

SEVEN PRIZE MEDALS AWARDED.

# GOODALL'S YORKSHIRE

THE MOST DELICIOUS SAUCE IN THE WORLD.

This cheap and excellent Sauce makes the plainest viands palatable, and the daintiest dishes nore delicious. To Chops and Steaks, Fish, &c., it is incomparable. Sold by Grocers, Oilmen, Chemists, &c., in Bottles, 6d., 1s.,

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CAUTION.—On each Yorkshire Relish Label is a Willow Pattern Plate, and name, Goodall, Backhouse & Co. No other is genuine.

THE BEST IN THE WORLD.

Makes delicious Puddings without Eggs, Pastry without Butter, and heautiful light Bread without Yeast. In 1d. Packets; 6d, 1s., 2s., and

# Gooda

The hest, cheapest, and most agreeable tonic yet introduced. The best remedy known for Indigestion, Loss of Appetite, General Debility, &c. Restores delicate individuals to health and vigour. In Bottles, 1 $\epsilon$ .  $1\frac{1}{2}d$ . and 2s. 3d. each.

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For making delicious Custards without Eggs, in less time and at half the price. Unequalled for the purposes intended; will give the utmost satisfaction if the instructions given are implicitly followed. Sold in Boxes 6d, and 1s, each.

Makes Three Gallons of the Best Ginger Beer in the World for 3d. Is a delicious and invigorating heverage, possessing valuable medicinal properties. It is cooling in its nature, and a most wholesome beverage for both winter and summer. Sold in Packets, 3d. and 6d. each.

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Acknowledged to be t'e only real substitute for eggs yet discovered. Its action on Cakes, Puddings, &c., &c., resembles that of the egg in every particular, enriching them in colour and flavour, rendering them most wholesome and nutritions. One penny packet will go as far as four eggs; and one sixpenny tin as far as twenty-eight. In 1d. Packets; 6d. and 1s. Tins. SOLE MANUFACTURERS-

GOODALL, BACKHOUSE & CO., White Horse Street, Leeds. A Monthly Price List of Druggists' Sundries, Patent Medicines, &c., can be had post free on application.

SEVEN-INJUNCTIONS have been granted during the past few makes



NOTICE IS HEREBY GIVEN that in several actions instituted by Messrs. GOODALL, BACKOUSE of Leeds, Injunctions have been recently granted by Judges of the Chancery Division of the Judicature, restraining several persons from using several Counterfeits of Messrs. Goodall, Ballots Labels, and in particular against the use of the words "YORKSHIRE RELISH." The sole and clusters the use of which words having been finally established by the above Firm, they will take immedia pragainst parties manufacturing or offering for sale Sauce under the above title, not being of the Messrs. Goodall, Backhouse & Co.

Information may be given to the undersigned,

J. SEYMOUR SALAMAN,

12 KING STREET, CHEAPSIDE, LOND, Solicitor to the Trade Mark Protion

# LIEBIG'S PURE

EQUAL TO ANY IN THE MARKET AND SUPERIOR TO MOST.

It is extracted from Beef only, and makes the finest Beef Tea, Soups, &c. It is very nutritious, economical, a is prepared in New Steam Process, and will retain its quality and flavour for years.

In Jars, 2 ozs., 4 ozs., 8 ozs., and 16 ozs. Weight Guaranteed. Prices, 1 lb., 48 doz.; lb., 26  $\frac{1}{4}$  lb., 15/; 2 ozs., 8 6.

Special Terms to Agents and large Buyers. Show Cards, &c supp

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Careful attention to orders for Shipment, which for Canada and the United States is direct on the Best Markets sought for Foreign Produce consigned for disposal.

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# SAUCE

For Chops, Steaks, Cutlets, Hot or Cold Meat, Fish, ame, Soups, Gravies, Salad, Cheese, &c.

PRICE TO THE TRADE, 9s. & 15s. er

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PADE ARK (REGISTERED)

### in Cases of Two Doen Tins.

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(SWISS MILK INFANTS, CHILDREN, AND

Used in all the Leading London and Country Hospitals for Children.

"By its use infant mortality should be reduced to a minimum."-R. S. G., M.D.

"I have ordered Ettli's Food invariably with benefit."-C. T. B., M.D.

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"Infants and children thrive on it mai renown."

"It is the best form of artificial food I have yet had occasion to try."—

W. C. G., M.D.

See The Laucet, 11th March, 1882, for full Testimonials.

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PREPARED BY THE SWISS MILK AND FOOD COMPANY.

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# Os for a QUARTER-CASK,

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JAS. SIM & CO.,

# "BOROUGH" KETCHUP.

The following Editorial Notice is taken from the CHEMISTS' JOURNAL:havihoroughly tested Mr. Tyrer's 'Borough Ketchup,' both in the laboratory and in the kitchen. er e microscope with a power of 450 diameters, the 'Borough Ketchup' presents the appearance of a arm ark brown liquid. Passed through a greased tipped filter very little sediment was deposited. A bread amination of this deposit under the same power showed most conclusively that Mr. Tyrer's preparation the 'mashed up toast,' 'decayed fish,' 'mildew,' and 'broken twigs, found by Mr. G. Worthington the dis guished mycologist, in the common ketchup sold in London. The proof of the pudding, however. sating and whether taken alone or in sauces we can personally testify that Mr. Tyrer's Borough Ketchup ous, an that it would puzzle the finest palate to discover any difference between it and the finest brands in a legitimate article for sale, especially in the provinces, we heartily recommend Mr. Tyrer's

aple Glion (bottle free) sent, carriage paid, within Carter Paterson's radius on receipt of 2s. 6d., or to any wholesale house in London for enclosure.

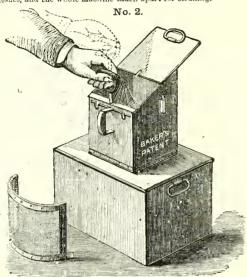
# FETER TYRER, LING LANE, BOROUGH, LONDON, S.E.

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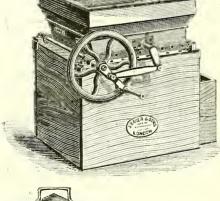
parts of the World. Over 10,000 already in use by the Principal Chemists, Druggists, and Manufacturers in the United Kingdom of the literature of these inventions having already been attended with so extensive a sale, and having been adopted by the disc. Oruggists, and Manufacturers hoth at home and abroad, renders further testimonials to their superiority over any other "Mixer" becarries the only Machines that combine the advantages of the finest sieves with those of a perfect mixer; finer powders and more influent produced than is possible by any other process, while for rapidity of action and the entire avoidance of waste and dustin the other unrivalled. Since their first introduction, important improvements have been added, both in No. 1 and other sizes, and recently an extensive of several sizes have been exhibited and satisfactorily tested. The Machines are provided with seven different meshes of extensive selection of four is usually made, forming the "ordinary set." The finer sieves are used for Camphorated Chalk, Violet Powers, makes Gregory's, Tooth Powders, Dover's Powders, and all finest Compounds, while the medium and coarser sieves are used for Sciditz, Unixed meshes, and the whole machine taken apart for cleaning.

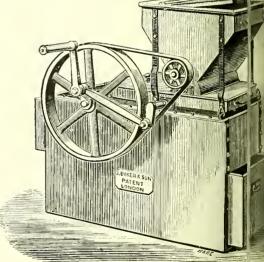


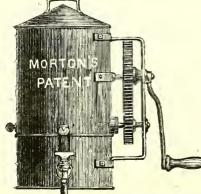


No. 3a.









NEW PATENT, with DOUBLE HOPPER 1 XER PULVERIZERS and AGITATOR MIXES.

These Mechines are arranged to work by either Handor Steam Poere. I materials where the mixing and sifting are completed; the material passing by the sgiral drawer helow. The gruff is discharged into the drawer in front, without stop is easily taken apart for cleaning, and the sieves can be instantly changel for material that requires eithing and mixing, or sifting only, can be worked in largest or smallest quantities. The result is a more renfet mixing than can tother "mixers," together with the finest sifting of the materials, and at a significant that from the machine or process.

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Pomades, Cold Cream, Ointments, Emulsions, Chemicals, Colours, Inks, Soap, Ss 3, Fruit
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ID MEDAL, PARIS, 1878.

Mdals—Sydney, 1880; Melbourne, 1881.

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anged Pure Cocoa only—deprived of the superfluous oil.

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Prove and strongly recommended by many eminent members of the Medical profession, and is an article equally a pted for those under Homæopathic treatment, for invalids, and for consumers generally.

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Have an immense sale, both at home and abroad; will keep in any climate, ancive universal satisfaction.

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## LAFEFFERVESCENT CITRATE OF CAFFEINE.

has by most extensively used as a remedy for sick headache, and with such great it may most be called a specific. It relieves all disorders of nerve-function, and is at me most boding and refreshing. Dr. Whitla (Belfast), in his Elements of Pharmacy, an Inergeptules, recommends the Granular Effervescent Citrate of Caffeine as prepara in case of sick headache."

Genniar Effervescent Citrate of Caffeine should be taken at the commencement of beadag and the does should be repeated in an hour if any pain should remain, from those teminent medical men in the profession enclosed with each hottle, each bigham Physician writes:—"I like the Effervescent Citrate of Caffeine should be received by the mach bottle, which is a particularly valuable medicine as a morning restorative; and the lon, or where sedentary occupation have reduce I the tone of the system, it as with pet safety and great advantage."

with pect safety and great advantage."

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eight gas of this anti-febrile salt in each drachm, keeps well, and yields a delicious draught, tis more efficient, more economical, and more convenient than the ordinary cm, and ch superior to the various mixed powders, which consist mainly of Tartrate

Mr. Fewil, Analytical Chemist, wrote:—"It is the nicest effervescing preparation I ated, and infinitely pleasanter than the bottled waters."

Determin his "Common Sense Management of the Stomach," recommends for Inditional Common Sense Management of the Stomach," recommends for Inditional Common Sense Management of the Stomach," as a very agreement cooling axative, when taken in doses of one dessert spoonful in half-a-pint of water

## BISHOP'S

# JLAR FFERVESCENT MINERAL WATER SALTS.

preparation artificial waters, these Granular Effervescent Salts are especially suitable. I drashir raught, and may be relied on as presenting at the same time the chemical the natal waters. It is obvious that in this form the Granular Effervescent prepathe nath waters. It is obvious that in this form the Granular Effervescent preparent many vantages over the waters themselves. Whilst all the constituents of the reduced, the Salts are extremely portable, more economical, and with them a water shape and the salts are extremely portable, more economical, and with them a water shape and the salts in special supports and the salts are always to make the salts are supported to the salt in a sampler of water as a drang similar in effect to the natural water. The Seltzer Water has been long both in thomatry and in Enrope, as an excellent tonic and mild aperient. A bottle of a flervect preparation of this Salt is a great addition to the dinner table, as a small the waboles and refreshing beverage prepared from it, and taken during dinner, is both as beneficial.

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white, I delicately clean preparation, prepared from salts obtained from the Pure of Lemons d Grapes.

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Mr. Bishop's Granular Effervescent Preparations have been known to me for more than twenty years. The maker has submitted to me the formulæ for them; I have seen them compounded at his factory; I have more than once tested the materials he uses; I have many times analysed the finished products. The formulæ are excellent, the ingredients pure, the processes perfect, the products all that can be desired.

(Signed)

JOHN ATTFIELD.

Dec. 6, 1881.

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# SILICATED

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Designed by MAJOR FRASER, of the ROYAL ENGINEERS.

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Authorities at the Horse Guards and been laiely used in the Alhan Zulu Expetitions

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Made in cream-coloured Stoneware, fitted with the Silicated Carbon Media, complete with Cover and Silver-plated Tap.

All sizes of this pattern can now be had with Ice Compartment, which renders this Filter the most perfect of Refrigerators.



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PRICE.

No. O, capacity 1 gallon 10e. 1. 148. 1. No. A,

218. 4. No. B,

328. 1. No. C.

428. No. D,

No. E,

708 d. No. F.

### SUPPLY FILTER, MAIN This Filter is extremely sit le in coas

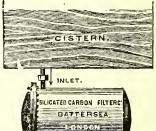
SPECIALLY ADAPTED FOR Mansions, Schools, Hospitals, Public Institutions, Breweries, Distilleries, Soda Water Manufactories, Dye Works.

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### PURE WATER

Are required.

The ordinary Sizes kept in Stock are as follows :-A, }-inch or }-inch pipe .. B 1-inch pipe .. C, 11-inch, 11-inch pipe .. D, 2-inch pipe ..



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Special Contracts intered for Large Works, istitut &c., 8,

and can be either connect with a C

the Cleansing Tap, and w deliver

of purified water at a n of 50

gallons per hour, acc ling to s

Ettached to the Main Servic ipe. It no attention beyond an or ional op

OF THE WATER SUPPLY OF A BUILDING FORE PURIFYING THE WHOLE Ensuring Rapid and Perfect Filtration, at either High or Low Pressure

BILICATED CARBON FILTER CO., CHURCH ROAD, BATTERSE

# LICATED CARBON FILTERS.

### INFILTERS FOR TRAVELLERS.

pure il per-holeso water drunk om any strm by immerig the ereina drawwater trough





used as a Syphon by placing it in a vessel of water, then drawing the water by the mouth, and allowing the flexible tube to hang over the side below the Filter. When once set in operation their action is continuous.

are realy cleaned from sedimentary matter by merely throw the tube, and brushing the surface of the

mediu		
et Pilten? inches diameter, in porcelain, with glass	8.	d.
uthpiece, decorated metal box	2	6
, 31 inch liameter, in best stoneware	5	0
, , with silver-plated tap	7	0
mant's, 5 hes diameter, with silver-plated tap	12	0
t Pilter, r carrying over shoulder, as supplied to the		
res in Lisinia and in Zulaland, and to the Ashantee		
pedition	3	6
nickelp d. designed by Major Fraser, R.E., and specially		
ommended the Horse Guards for Officers' kits	5	0

### TABLE FILTER, NO. 24.

Made of stout glass, in 1, 2, and 3 pint sizes, the filtering medium being securely fitted into the bell-funnel, so that it is not liable to become loose, or to allow unfiltered water



to pass. This Filter is peculiarly suited for the Bedroom and for Table use, affording a ready and simple means of obtaining at any time freshly-purified water.

O, 2s. 6d.; Engraved Vine Pattern-A, 4s.; B, 5s. 6d. -O, 3s. 6d.; A, 5s. 6d.; B, 7s. 6d.

## POROUS TERRA COTTA FILTER. NO. 29

Shape of this Filter as Fig. No. 24. O, 2s. 6d.; A, 4s.; B, 5s. 6d.

### SILICATED CARBON BLOCKS.

 $2 \text{ in.}, 18.6d.; 2\frac{1}{4} \text{ in.}, 28.6d.; 2\frac{3}{4} \text{ in.}, 38.; 3\frac{1}{4} \text{ in.}, 48.; 4\frac{3}{4} \text{ in.}, 58.6d. ea.$ SPECIAL QUOTATIONS FOR QUANTITIES.

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No. 22.

MADE IN MARBLED CHINA.

Size A holds about two gallons; size B. five gallons.

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A	••	• •		••	• •	• •	• •	• •		35s.
В										80s.
Δ,	with	Ice				it itent		• •	••	425.
В,	with	Iœ	Com	part	men		٠	••	••	100s.
Atta.	7		(T)	2		27	7 .			FF . *

large size (B) is specially adapted for Hotels, Refreshment Rooms, Luncheon Bars, &c.

## REFRIGERATOR FILTER, NO. 25.

Made in Porous Terra-Cotta Ware,

Which acts with remarkable power as a cooler, and renders this Filter invaluable, especially in Tropical Climates, AFFORDING A

COOL DRAUGHT OF PURE WATER,

Price, with Silver-plated Tap .... Ditto, ditto, with Ice Compartment.. Capacity Two Gallons. 42s. 0d.

Specially adapted for Tropical Climates.



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The most efficient known

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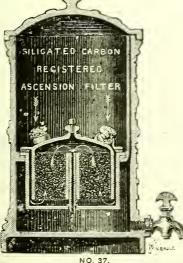
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1 Pint, 2'6 ea. 4/-

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The Water passes upwards through the Silicated Carbon in the direction shown by the Arrows in the Drawings.



for Table and Domestic Use.

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The inner blocks being movable, by attaching an indiarubber tube they can be converted into Pocket

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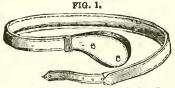
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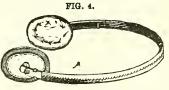
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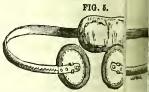
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cular	Trusses.	single.	88	Fig.	1.	bas	il :	and	ŧ

chamois or basil and per doz. £1 1 0 moleskin Circular Trusses, double, basil and chamois or basil and moleskin per doz.

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Salmon & Ody's Expired Patent, single, Fig. 4 double, Fig. 5 Moc-Main Lever, single double

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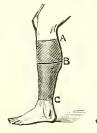
All who are in the habit of fitting Trusses must frequently meet with very troublesome cases, in which the haia is of descending (with some persons many times during the day). We can with confidence recommend these Trusses as by most suit in such cases, and we solicit a trial, feeling sure that a great deal of trouble and inconvenience may be saved by siruse.

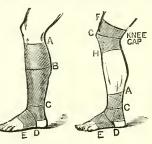
Price per doz., single, 48/; double, 84/; superior quality (highly finished), single, 10/; double 5/ eacl

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Covered entirely in Gum Elastic. Single, 40/; Double, 60/ per dozen.

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for Export, and warranted to stand a hot climate better Silk. than any others in the Market. Stockings Knee-caps Calf-pieces .. ,, Wristbands Knee Stockings

DIRECTIONS MEASURE MENT. For a Stocking For an Ankle Sock For a Knee-cap For a Thigh-piece and Knee-cap Circumference at A B C D E ACDE KJFGH

Belts, to draw on

Length, A to the and. A to the mud. F to H. to C. G to hig t point

## SUSPENSORY BANDAGES

1. Cotton Bags and tape under-straps .. 2. Cotton Oxonian, with drawing-strings

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5. Silk Oxonian Bags bound with elastic C. Slik Oxonian, superior quality, bands of bu lean, drawing-strings Silk Bags, to button on, with tape under-straps. under-straps to bu a

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n ing ous and convenient device for inhaling of am nium fumes. By its use the chloride of um is pught in more intimate contact with the antace of the passages of the nose and throat than ther to of inhaler."—The Medical Press and Reps.

full Nes and Reports see front pages of THE LANCET, May 6th.

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ANCET as of the Kepler Extract of Malt: "The wn, an in this country the largest used, Extract It is a distinct an advance in therapeutics as was aduction of cod-liver oil. It is one of our best remedies for atonic dyspepsia, and is undoubtedly useful in consumption and other wasting diseases." And further adds, "It ood, an may he used with confidence."

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### McK & R CAPSULED PILLS.

portant the provement has been made, which now offensive and repulsive drugs easy of ration. This improvement consists in perfectly transparent capsule of gelatine all drugs, prinine, prinia, rhubarh, &c., also the various pills e pharmacopeia. These capsules are of shape and it has been demonstrated beyond nordinary coated pills are rejected by the slightest difficulty in administering form.

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# OF MALT.

an en sified combination of the purest fresh n Cod-1 er Oil with 50 per cent. of Extract of pler).

n be see under the microscope to be as fine as the wind much finer than any that can be unulsion with gams. On the fineness of ds the digestihility of the oil. "The change degone by fatty matters in the small consists and or divis a into infinitely minute particles."

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### BURROGHS BEEF AND IRON WINE.

is a real valuable preparation, and, as far as we to velty.

contains beef-juice and citrate of iron and is therefore a very powerful and Children, as well as adults, take it is to atta great popularity. In many cases of and ricks we have given it with the most results. The LANCET Report.

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### LAWTOIS ABSORBENT COTTON.

been prounced by some of our most eminent the very st absorbent for taking up discharges; fine and it, and acts instantly."—THE MEDICAL IND CIRCUIR.

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### WYETH'S COMPRESSED TABLETS.

EXACT SIZE OF TABLET

"Are a great improvement on the hard, unpalatable lozenges which have so long done duty in the Pharmacopæia. The Chlorate of Potash and Chlorate of Potash and Borax will be found useful in throat affections, whilst the Bicarbonate of Potash and Bicarbonate of Soda Tablets will prove efficacious in dyspepsia. The Soda Mint, or Neutralising Tahlets will earn the gratitude of many a flatulent dyspeptic."—The Lancet.

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### HAZELINE.

THE MEDICAL PRESS AND CIRCULAR reports:—"Hazeline is a valuable astringent remedy, wonderfully efficacious in checking internal or external hamorrhages, and for allaying inflammation. It is particularly valuable in the treatment of bleeding piles, and as a surgical dressing it deserves attention."

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# WYETH'S SOLUBLE COMPRESSED HYPODERMIC TABLETS.

The following formulæ and combinations embrace all those in general request. Others will be added as the demands of the profession warrant.

We claim for Wyeth's Hypodermic Tablets:

ABSOLUTE ACCURACY OF DOSE.

READY AND ENTIRE SOLUBILITY.

PERFECT PRESERVATION OF THE DRUG.

Their convenience and utility will at once be apparent on examination.

Morphiæ Sulphas	1.3 grain.
Morphiæ-Sulphas	1-4 grain.
Morphiæ Sulphas	1-6 grain.
Morphiæ Sulphas	1-8 grain.
Morphiæ Sulphas	1-12 grain.
Morphiæ Sulphas Atropiæ Sulphas	1-3 grain. 1-120 grain.
Morphiæ Sulphas Atropiæ Sulphas	1-4 grain. 1-150 grain.
Morphiæ Sulphas Atropiæ Sulphas	1.6 grain.

Morphiæ Sulphas Atropiæ Sulphas		1-8 grain. 1-200 grain.
Morphiæ Sulphas Atropiæ Sulphas	••	1-12 grain. 1-250 grain.
Atropiæ Sulphas ·	.,	1-60 grain.
Atropiæ Sulphas	٠.	1-100 grain.
Atropiæ Sulphas		1-150 grain.
Strychniæ Sulphas		1.60 grain.
Strychniæ Sulphas		1-100 grain.
Strychniæ Sulphas		1-150 grain.

For full Notes and Reports see front pages of THE LANCET, May 6th.

### WYETH'S DIALYSED IRON.

- 1. It is easily administered, the dose being very small.
- 2. It has no unpleasant taste or smell.
- 3. It does not irritate the stomach.
- It has no effect on the bowels, producing neither constipation nor diarrhea.
- 5. It does not blacken the teeth.

In ordering please specify Fer. Wyeth 3 oz. with Dropper?

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The following voluntary Testimonial has just been received from H. J. HARDWICKE, M.D., F.R.C.S. M.R.C.P. Ed., &c., Senior Physician to the Sheffield Public Hospital for Skin Diseases, &c., &c. —
To Messis. Southall Bros. & Barclay.

69 Westmorrland Road, Sheffield.

M.R.C.P. Ed., &c., Senior Physician to the Sheffield Public Hospital for Skin Diseases, &c., &c.—

To Messrs. Southall Bros. & Barclay.

Gentlemen,—Your Sea Salt is a very valuable agent in the treatment of disease, baving, when used in haths, a remarkable effect on the system. Under continued use the perspiration and flow of urine are increased, relieving the glands of the skin and the kidneys; the elimination of coloride of sodium and phosphates from the body is diminished; the appetite improves; the bowels act more regularly; the whole system is stimulated; and the weight of the body increased.

In such diseases as Lepta (Psoriesis) and Eczema, however, where there is morbid deposit on the surface of the skin, Sea Salt should not be used.

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DIRECTIONS.—For sea water of full strength add a gallon of water to each measureful of Salt. For aquarium purposes adjust with a hydrometer or gravity bubble so that its specific gravity shall be 1.027 at 60 deg. Fabr.

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See "CHEMIST AND DRUGGIST," December 15th, 1874.

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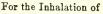
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bare pleasure to announce that we are now seed by a Pharmaceutical Society of New Zealand to the Chist and Druggist to all the members of the temist and Druggist is now supplied to all the Pharmaceutical Societies of Victoria, outh W.s., Queensland, and New Zealand.

teport of the Royal Commission on the Medical Acts in issu. The Commission recommend the established Disional Boards for each of the three Kingforthe emination of medical men, and a reconstructive decal Council. More than half of the memthe Consission, however, dissent from one or other dations.

Government have abandoned their intention of proleg all movers with coffee except chicory. As far as concerned, anything may be mixed with so long the compound pays the coffee duty.

Medical puncil have again considered the case of memis's a stants on the Dentists' Register, but they assend it seem dipsed to reverse their former action.

British armaceutical Conference have issued their tation of he meeting to be held at Southampton on under the presidency of Professor Attfield. The German Pharmaceutical Association are held at Berlin on September 5 to 8. An interior will held in connection therewith.

Professor Bedford of New York, President of the Pharmaceutical Association, desires us to express the pleasure with which the society would welcome the presence of British pharmacists at their thirtieth annual meeting to commence at Niagara Falls on Tuesday, September 12.

A new scale of medicines and medical stores has been issued by the Board of Trade Marine Department, and should be obtained by chemists who fit up medicine chests for merchants and passenger vessels.

The Chemists and Druggists' Association have successfully prosecuted an unregistered dealer in drugs at Hyde, Cheshire, for selling laudanum not duly labelled. It is to be hoped that this presecution, under the 17th section of the Act, will be followed by one under the 15th section. A few months of vigorous action on the part of the Pharmaceutical Council, with a little less tenderness towards the infringers of the Act, would be welcomed by the trade and would be useful to the public.

The chemists of the north-east of Scotland have resolved that they ought to be specially represented on the Pharmaceutical Council, and they intend to establish their claim.

The Society of Chemical Industry have held their annual session at Manchester. The number of members has increased from 297 to 1,140. Professor Abel has succeeded Professor Roseve as president.

The meaning of "14 days prompt" has been discussed in the City of London Court. We imagine that not many people besides the plaintiffs in the case have much doubt as to the interpretation of the clause.

Some sulphuric acid makers have objected to the addition of that acid to the poisons schedule on the ground that it would inconvenience many people to be obliged to get it from the chemist. The Privy Council have sent on the objection to the Pharmaceutical Council, and the latter body reply that such dealings would be wholesale, and therefore exempt. Clearly we want a definition of wholesale dealing, and clearly too the Pharmaceutical Council are not capable of giving it.

# THE DRUGGISTS' CIRCULAR (NEW YORK). THE PHARMACIST AND CHEMIST CHIDAGO)

We have much pleasure in announcing au arrangement we have made with the above named journals, which will enable us to offer them on specially advantageous terms to any of our subscribers.

The annual subscription to *The Druggists' Circular* is \$1.60 = 6s. 8d. To a subscriber to The Chemist and Druggist it will be supplied at 4s. 6d. per annum, postage included.

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The Druggists' Circular is the journal most widely read by pharmacists in the United States, and contains an immense fund of information, original and gathered from various sources, of interest and use to chemists everywhere. The Pharmacist and Chemist has gained a considerable reputation for its pharmaceutical contributions, and for the general ability of its literary contents.

We will send specimen copies to applicants as far as we are able to do so.



CONDUCTED BY RICHARD J. MOSS, F.C.S.

### QUALITATIVE ANALYSIS.

THE subject of the next exercise will be a metallic alloy, It is to be submitted to a complete systematic examination, designed to detect all its constituents, and to demonstrate the absence of other substances. A list of the metals detected is to be given, distinguishing those that arc present in quantity from minor constituents.

Applications will be received up to July 20, and portions of the alloy will be sent to applicants on the 25th. Students' reports will be received up to August 15.

### REPORTS.

The mixture of salts distributed for analysis in May consisted of-

						r cer co
Calcium carbonate		 				20
Magnesium carbon	ate	 	R *		• •	20
Lead carbonate		 				5
Copper carbonate		 			* *	5
Cobalt nitrate		 		• •	* *	2

Arsenic, iron, aluminium, chlorine, and the sulphuric radicle were present as accidental impurities.

This was by no means an easy exercise, and those who bave succeeded in making a fair analysis of the mixture deserve all the more credit. The number of reports received on the preceding occasion encouraged us to make the present exercise more difficult than usual. The result is disappointing. For every three packets sent out only one report has been received. It is evident that some of our contributors found the work too difficult, and were unwilling to face the competition. We should have been glad, however, to have heard from them, and to have had an opportunity of clearing up the difficulties they encountered. The object of the "Corner" is instruction, and it would materially assist us in carrying out this object if each student would consider himself bound to submit a report, however brief or imperfect it may be.

The first precaution to be observed in the analysis was in the preparation of the acid solution; for the mixture of salts was not soluble in water. To show the necessity for care in this operation, we shall describe actual experiments made with the substance. About 0.5 gramme—one quarter of the quantity sent to each student-was heated with 10 c.c. of water, and hydrochloric acid was added cautiously, until a complete solution was obtained with the aid of heat. The quantity of hydrochloric acid required to effect this object was about 0 5 c.c. On cooling the solution a crystalline precipitate of lead chloride separated; the liquid was filtered from this precipitate, and sulphuretted hydrogen was passed through the filtrate until the liquid, after being shaken, smelt strongly of the gas. The precipitated sulphides having been removed by filtration, it was found that the filtrate was perfectly free from lead. This experiment was repeated with the same quantity of the original substance, but instead of using only enough hydrochloric acid to effect solution, the powder was dissolved in 10 c.c. of dilute hydrochloric acid (equal parts acid and water). Sulphuretted hydrogen failed to remove the lead completely from this solution, a fact that was rendered evident by adding an excess of water to the filtrate from the sulphides, when the liquid became black from the separation of lead sulphide. This experiment is an illustration of the well-known fact that certain metals are not completely precipitated from acid solutions as sulphides

in the presence of a large excess of mineral acid the copper and lead were completely precipital at the outset they would materially interfere with the beque analysis, and this was one of the difficulties beringer by students on this occasion. Another difficul was the detection of nitric acid which was present in colaratively small quantity. Of course any nitric acid in the mature would be found in the aquecus solution, as the rates an soluble in water. The best test to apply was tha ependin upon the use of ferrous sulphate. This test i extre el delicate, but unless due care is taken in applyi it, sma quantities of nitric acid are very liable to be overoked. I the present case the following plan was complete success ful: About 0.5 grm. of the substance was treated ith 10cc of water, and the liquid filtered. The filtrate ight wi advantage have been concentrated by evapation, by it was not necessary. A small quantity the solu tion—about 10 drops—was placed in a totube an a crystal of ferrous sulphate added, an dissolve with the aid of heat. The liquid was then cond and to test-tube fastened in a clamp at an angle cabout 48 Strong sulphuric acid was then cautiously ided of by drop, each drop being allowed to flow do the sid of the tube. The heavy acid sinks to the bot n, and the liquid to be tested floats on its surface; almost mediate a brown ring appeared at the juncture between the liquids, indicating the presence of nitric acid. T colorate is due to the production of nitric oxide, which issolves a solution of ferrous sulphate, forming a brin-colour liquid, and the nitric oxide is the necessary sult of t reducing action of ferrous sulphate on the hitric ac liberated by the sulphuric acid. Heat is a certa extent favourable to the reaction, but if he tem rature rises beyond a certain point the nic oxide at once liberated from the ferrous shate a ferrous sohate a the brown colour disappears. This is one use of t frequent failure of students in endeavouring apply t test. A very slight shaking of the test tube slices to a the liquids, and cause too violent hydration of esulphu acid, and for this reason the student is rec mended fasten the test-tube in a clamp. The acid mus not flow t rapidly down the side of the tube, and therefolit is add drop by drop, and the tube is inclined suffinity. It desirable that the liquid to be tested should train a co siderable quantity of ferrous sulphate. It willbt dotos a crystal of this salt and immediately procee to add sulphuric acid, in which case the crystal will main und solved in the acid at the bottom of the tube, I the res will be a failure. The ferrous sulphate must l'dissolved the liquid; if it produces a precipitate the uid can filtered and more ferrous sulphate added before sulphuric acid. It is quite unnecessary to emily more il ten drops of the solution under examination the act takes place mainly at the surface of contact A min trace of ni ric acid will not reveal its presence nuediate but there is no use waiting more than five nutes. difference of refraction of the liquids in the be cause peculiar optical effect which must not be conjunded w coloration; and it is necessary to try a blank perimen ensure that the ferrous sulphate and sulphic acid sufficiently pure. The examination of the alloy to be used the month

be a novelty of some interest to our corresporats.

The First Prize for the best analysis has be awarded

JOHN F. CROSHAW, 61 Lowgate, Hull. The Second Prize has been awarded to ROFT WHID 45 Spring Gardens, Buxton.

### Marks Anarded for Analyses.

						1	90
John F. Creshaw	(1st )	prize)		• •	• •		88
Robert Wright (2	2nd pr	ize)		• •	••		85
W. Miller				••			85
Tycho Brahe			• •	••	••	1	80
Fahrenheit		• •	••	• •	. **		73
Trigonella			• •	• •	••		70
T. Muskett	• •		• •	••	••		60
Signatur		• •	• •	• •	••		10
Gobbo		* *	• •	• •			50
J. F. Liverseege						1	

### TO CORRESPONDENTS.

tree - students to whom prizes are awarded are requested to write ace to publisher, naming the book they select, and stating how wish if rwarded.

ny science book that is published at a price not greatly exceeding a-guinenay be taken as a first prize.

scienc book which is sold for about five shillings may be taken as

All con unications should include the names and addresses of the

writer ho Bra -The portion that dissolved in water was not large, but it

have i aded all the nitrate in the mixture, so that it was clearly make a hydrochloric acid solution to examine for nitrates. Areahei In examining for lead you did not wait long enough for the

pitate torm after adding the sulphuric acid. Traces of lead will ive a pripitate unless the liquid is evaporated.

The precipitate which you observed on adding water to the e obtail by the evaporation of the hydrochloric solution consisted al clide; it was crystalline, and altogether unlike the finelyed basic smuth chloride.

Mukelt, our separation of the green powder from the rest of the une was renious. The precautions to be observed in precipitating makes fro acid solutions referred to above are most important. Most enable are more or less soluble in strong acids, hence the necessity

the sciend much water.

e sniphuretted hydrogen precipitate required a much more distinction. We do not know how you made it dissolve in the

d with neurous chloride.

P. Lever be.—Ordinary dilute snlphuric acid gives in solutions cou-age suffect calcium a precipitate which may be mistaken for attention scalet. The sulphuric acid should be carefully diluted to such stant as tender it incapable of precipitating calcium salts.

## Pharmacalia.

IE SOCIETY OF PUBLIC ANALYSTS.

E Societ of Public Analysts held a general meeting at dington ouse on June 28. The proceedings were of a y quiet d unostentatious nature, and assumed througha conventional tone in which the foreign element was spicuous

Few woll gather from the quiet mode of conducting siness the this was an assemblage of individuals whose nes are oposed to be a terror to evil doers; and we st confe that the entire absence of oratorical display gratifyg to one accustomed to attend public meetings. en the imbers were assembled Mr. W. Johnstone read communicion on Samples of Milk which have fallen ow the ciety's limit, on which a discussion was comaced, what by agreement was deferred until the reading a second aper bearing on the milk question, by Mr. O. ther. Wh respect to this latter an animated discussion k place, i vhich Dr. Dupré and Mr. Wynter Blyth engaged. e author, wever, fairly stood his ground, and supported view of he subject with equal vivacity and success. evious to is it was clear, even to an outsider, that the st paper othe list had not altogether met the approval the analy,, and that unfriendly criticism might be excted. Th suspicion was justified by the event, and at e very clo of the discussion it transpired that in the alyses subitted for comparison at this and at the former eting, the nilk had been coagulated by acetic acid. It stronglyuggested therefore, that as a process different that ador d by the Society had been employed, the anatical figur tabulated were of no value, not being based a recogn 1 mode of inquiry. An official notice to that Tect was remmended to be inserted in the current number

Mr. Wigt concluded the business of the evening by eading she extracts from his Summary of Work Done during 1881. With the main details of the operation of the Sale of Food and Drugs Act the reader is already familiar It appears that very great steps have been taken, especially in the United States, towards the suppression of adulteration, and that most of the Bills that have been proposed in the various States have been passed. But the matter of chief importance is "that nearly all contain what was originally proposed by the Society of Analysts and pressed very strongly upon our own Government, namely a distinct definition of adulteration, with limits and standards, showing what the constituents of any particular article are (according to the Act) expected to be." Such a course adopted in England would put an end to the occasional contradiction of opinion between the Inland Revenue Chemists and the Public Analysts.

Milk adulteration, Mr. Wigner reported, remains, as it always has done, one of the crying shames of the country.

Probably it did not exceed the mark to say that 100,000/. a year was paid in the Metropolitan District alone for water which is sold at the price of milk. In this case the public was simply robbed, and the profit did not go to the Water Companies, but to the milkmen.

### A BOTANICAL ART GALLERY.

It would amount almost to an act of injustice not to mention the remarkable gallery of botanical paintings by Miss Marianne North, now thrown open to the public at the Royal Gardens at Kew. At a time when so great stress is laid upon the value of practical work this unique collection must command special admiration. The liberality of the lady artist is as noteworthy as her inexhaustible perseverance and her skill.

No less than 627 paintings are displayed in a tasteful building, the style of which is classical, containing a hall 25 feet broad and 50 feet long.

The paintings are enclosed in plain gilt framework, uniform in pattern, and of three or four dimensions. A panelled wainscot runs along the base in fashion of a dado, and is composed of rare woods, some of which are named, and to which the popular and scientific names will be ultimately attached. Overhead is a light gallery where larger subjects are depicted, and between these two, covering the walls to a not inconvenient height, are the pictures which constitute this admirable exhibition.

The whole is a free gift to the nation by Miss North. The pictures were painted by herself on the spot, in the countries indicated, and were arranged by herself in their present positions; and the catalogue, drawn up by Mr. W. B. Hemsley, was printed at her expense, and whatever profits may accrue from the 6d. charged per copy will be devoted to the funds of the Gardeners' Library. Mr. James Fergusson, the architect, gave the plan, and supervised everydetail of the construction of the building.

Miss North has gone out into the world carrying with her the materials of her art, and has reproduced with absolute fidelity and with no little artistic feeling the flowers, fruits, vegetables, trees, and shrubs she deemed of interest, surrounding them with whatever natural objects would serve to make the representation more thoroughly realistic. Her botanical sketches are not bare outlines, or well-coloured diagrams, but her subjects are seen growing in the midst of their own natural scenery, together with the birds, beasts, reptiles, and insects which materially serve to add local colouring to the scene. The first impression on entering the gallery is a certain sense of hardness; the outlines seem too rigid and correct, and the distinctiveness of each panel somewhat interferes with the idea of artistic beauty. This feeling certainly diminishes

after a lenger inspection, but it forms a drawback which it would be foolish not to acknowledge. The drawback is inseparable from the idea contemplated, to unite in one gallery typical examples of rare plants.

But when the eye has become accustomed to much outline as compared with comparatively little shading, the beauty of many of these paintings as compositions will be apparent. The Avenue of Royal Palms, Brazil; and the Side Avenue of Palms; the view near Brighton, Victoria, looking through a hedge of Tea Shrub; many of the Brazilian sketches; the Evening Glow over the Range seen through Red Gums, Queensland; and the View of the Otira Gorge, New Zealand, will each and all of them serve as illustrations, and to these may be added every painting where birds form part of the emposition.

But we must not forget that the first object was to secure fidelity of botanical representation, and that this has been achieved by Miss North was conceded by no few visitors who were acquainted with the scenes depicted. Those who desire curious plant information will do well to consult the pages of the official catalogue. There they will read how the Indian mothers who go down to the rivers to wash, place their babies on the leaves of the great water lily, and fear no danger; how, also, the broad leaves of the Traveller's Tree of Madagascar collect the precipitated moisture which filters into its tightly plaited sheaths, and by tapping them a drink of pure water may always be obtained; how a seed of a fig-tree was dropped by a bird among the leaves of a palm, where it germinated and grew, forming root after root, which descended and spread till they formed an unbroken sheath around its trunk; how the palm will be strangled and die, after which it will fall carrying its destroyer with it; how the banana is not only remarkable for its noble foliage, but one of the most important types of tropical vegetation, as its fruit is the staple food of a large number of the human race.

One may read of the Wellingtonia, 325 feet high, from the Calavera Grove; and the Great Grisly Big Tree, of the Mariposa Grove, the age of which exceeds considerably 1,300 years; of the Sacred Lotus, the most beautiful and graceful of all the water-lilies; and of the Holy Basil, a herb of the mint order, grown in pots near every temple and dwelling of devout Hindoos.

Let us not leave the building without a parting glance at the Bugloss, from Teneriffe, a stately herb about 6 feet high; or at the Flor Imperiale, from Biazil, with the gorgeously coloured coral snake in the foreground; at the Fucca gloriosa, of North America, or the Lilium awaratum, said to be one of the commonest wild flowers in Japan.

Before we leave Miss Marianne North's paintings altogether, it will be but fair to quote a passage from Sir Joseph Hooker's preface to the descriptive catalogue:-"On the beauty of the collection it is unnecessary to dwell, and it is not possible to overrate its interest and instructivemess in connection with the contents of the gardens, planthouses, and museums of Kew. Visitors may, however, be glad to be reminded that very many of the views here brought together represent vividly and truthfully scenes of astonishing interest and singularity, and objects that are amongst the wonders of the vegetable kingdom; and that these, though now accessible to travellers and familiar to readers of travels, are already disappearing, or are doomed shortly to disappear, before the axe and the forest fires, the plough and the flock, of the ever-advancing settler or colonist. Such scenes can never be renewed by nature, nor, when once effaced, can they be pictured to the mind's eye, except by means of such records as this lady Las presented to us and to posterity, which will thus have more reason

than we have to be grateful for her fortitude as traveller in her talent and industry as an artist, and her lightly act public spirit."

### METHYLATED ETHER.

Mr. H. B. Hewetson, in the Lancet, has a mpted of reverse the generally-received opinion that schylate spirit is inferior to the rectified in the manufacte of eth for anosthetic purposes. We have always en led imagine that methylated spirit was only adopted pharma on account of cheapness, and that where extell remediate were concerned, such as liniments and em cations, proved a boon to the manufacturer, since by inselient moderate expense.

Mr. Hewetson, as far as ether is concern maintal that the methylated variety is in itself prefable to the made from pure spirit of wine.

He writes that the verdict of the profesn has be given in an unqualified manner in favour of ett, as again chloroform, when arresthesia has to be product, and this opinion can be supported by much testically. He marks further that there are two samples of ther in market, to the relative value of which he clieves medical profession is not fully alive.

These are, of course, the rectified ether pharm and the methylated, to the employment o which hapharmacists are more than alive. Probably ey will gratified in discovering that they have be promoted medical interests by the introduction of a low-leed arti-

The experience of Mr. Hewetson tends to but that pure sample is apt to produce sickness and la geal spin certain cases in which there is a disposition such oplications. Also it is about twice the cost, a ct of who druggist need be reminded.

Of the use and applicability of the methy ed ethers the safest anæsthetic known, when carefully dmioistrate by Clover's inhaler, Mr. Hewetson speaks mos positive.

It is a very ordinary circumstance to occupi 0 second, producing complete an esthesia without a ruggle (cough, and it is by no means extraordinary f be fully under within the minute.

Not only can methylated ether be applied value and advantage in short operations, but anesthesia can be placed a safety so as to keep a patient in labounder its influence for upwards of four hours ether, therefore, the writer considers, from his point view, the safest and cheapest anæsthetic at prent in usually the safest at the safest and the safest at the

CHEMISTS AND POISONS.—A case has lately een trie New York, which raised the question whether chemist legally bound to supply poisons when ordered a physic Some time back a Mrs. Mary Ringwald presen la prese tion at the shop of Mr. Henry Diedel, Third venue, I York, ordering a large quantity of laudanum At the of the prescription the following had been the stophysician, "Please give to bearer 60 drops the stophysician," The druggist declined to give her so large a d, but as was in pain he gave her 10 drops on her reest that would give her what he thought quite saf She su quently claimed \$10,000 damages, alleging t if Di had given her 60 drops of laudanum as reques l, she we have been saved from a miscarriage and its feets. suit was tried before Judge Miles Beach and a ry. Ala number of physicians testified that in their caion a i carriage would have happened to Mrs. Rin ald ever 60 drops of laudanum had been administered bet. jury gave a verdict for the druggist, and the jure remar that a chemist might be indicted for mans ghter if knowingly administered a drug which should use deal

THE CHIMIDI AND DIGUGIST.

# Th Pharmaceutical Society.

EETING OF THE COUNCIL.

meeting of the Council of the Pharmaceulical Solyt was held on Wednesday, July 5, at the softhe ociety in Bloomsbury Square. Mr. Carteighe lulent, cupied the chair; Mr. S. R. Atkins, Vicelent. councillors absent were Messrs. Churchill, widson, il Woolley.

TH ANNUAL ADDRESS TO STUDENTS.

PRESS AT announced, amid cheers, that Mr. Joseph ad consted to deliver the address this year.

### APPOINTMENTS.

d: Mr. boom (Leven) and Attfield were reappointed to conduct the examination for the all's prit, held in July.

### FINANCE.

Finar Committee's report showed that at the sing of he month there was a balance of 4,010*l*. 7s. receipts were 1,155*l*. 10s. 6d, and the payments used to 044*l*. 10s. 10d.; 2,000*l*. had been transferred deposit count, leaving a balance of 2,121*l*. 6s. 8d. report is adopted, on the motion of Mr. GLEENISH, led by BORLAND.

### BENEVOLENT FUND.

report to Benevolent Fund Committee showed abscript as amounting to 241. 2s. had been received the pth, and grants amounting to 301. had been

There as a balance of 664*l*. 12s. 7d. in hand. PRESINT announced that a further donation of lineas I been received from Mr. Buck, Stamford ringing to total amount of his donations to 110*l*. 5s. Commise's report was adopted, on the motion of ADLEY, conded by Mr. SQUIRE.

### THE SOCIETY'S PREMISES.

port of the Laboratory, Museum, Library, and House diree, calling principally with additions to the pand meum, and with the redecoration and ventilation that red-room and other portions of the Society's tes, was dopted, on the motion of Mr. WILLIAMS, led by a SQUIRE.

### THE SALE OF POISONS.

PRESID T reported that on the previous day a Com-, consist of himself, the Vice-President, Mr. , Mr. Genish, Mr. Hampson, Mr. Schacht, and Mr. ms, had tited on the Privy Council with reference e sale of oisons. The details of the interview were in Com tee.

### LOCAL SECRETARIES.

Council hen considered in private the appointment al secretaes, the consideration of the subject occupyacoustic ded, the of local secretaries as decided upon was motion of Mr. RADLEY.

### AW AND PARLIAMENTARY.

sent to the Colonial Office in reference to the Act to colonial Office in reference to the Act to sent to the so of drugs and poisons in St. Lucia, which been subtract to the Council. The reply signed by ard Bremrige, Assistant Secretary, pointed out one or verbal an adments which might be introduced, and whed on the exemption of homeopathic medicines from the Act. This was the first instance known special exemptions in favour of such medi-

cines. However harmless so-called homoeopathic medicines may have been, it is not open to doubt that dangerous poisons are now sold under that designation, and it is probable that the exemption would be used to evade and defeat the general law.

The report also included correspondence which had passed with the Privy Council respecting the addition of sulphuric and other acids to the poisons schedule of the Pharmacy Act. The Privy Council had forwarded to the Council a letter received from Messrs. Dale & Plant, of Birmingham, opposing the addition of sulphuric and other acids to the poisons schedule of the Pharmacy Act. They urged—

1. It would be injurious to freedom of trude in creating monopoly, especially in manufac uring towns, where it is largely used.

2. It would enhance prices considerably, as chemists do not lay themselves open, at present, for this branch of trade; therefore, would require special hands for supplying these articles.

3. That chemists, as a whole, would not care for this trade being added, as it is extremely cumtersome, heavy, dirty, and very liable to accident. It would, no doubt, interfere with their dispensing department, on account of the dirty bottles in which it is usually supplied to consumers.

4. It would be very inconvenient to manufacturers, as a whole, to be compelled to send to certain places for a supply, instead of getting it near at hand.

5. No public good could accrue from any fresh restrictions, as it is rarely, if ever, used as a poison.

6. It would very largely affect a large number of old established drysalters, who have cultivated a manufacturing trade in these goods, and do not dispense medicines; therefore, they should receive an amount of consideration before destroying their trade.

To this Mr. Richard Bremridge, directed by the Committee, had replied that Messrs. Dale & Plant were apparently unaware that such dealings as were referred to by them would be of the nature of sales by wholesale, and as such would be exempt, except that it would be necessary to label the bottle with the name of the article and with the word "poison." It was also urged that, though fatal cases of poisoning were not so numerous as with some other poisons, serious cases of injury were by no means uncommon.

### THE PROPOSED CURRICULUM.

A letter was read from Professor Attfield, who desired to bring before the Council the opinions of certain eminent men in support of the principle they had recently adopted. The writer had frequently had to meet the objection that the Society's existing plan of examining all eomers was also carried out at the London University, and that what was good enough for the latter was good enough for the fermer. The reply was that the University made an exception to the rule in the case of medical candidates, with whom pharma. ceutical candidates might fairly be elasse?. That this contention was well founded was shown by a letter to that effect from Dr. W. B. Carpenter, which was enclosed. fessor Attfield had lately received equally satisfactory opinions from Sir Robert Kane, Professor Tondall, and other high authorities, and from the 3,500 copies of his pamphlet which he had issued to members of the Society he had received 300 letters, besides aeknowledgments, all but five being in favour of the action taken by the Council.

The PRESIDENT said it was very satisfactory to him to learn that a man who occupied so important a position in connection with a great body like the University of London should be able to say that so far as the practice of pharmacy was concerned free trade in examinations was not the wisest course. At the new Victoria University examinations had been made subservient to education. There was a vast difference between the results produced by a process which involved good training and these produced by an examination which might be passed at any time without the candidate having gone through a proper course of training. He thought that Dr. Carpenter's letter should be placed on record.

Mr. Hampson thought it was somewhat remarkable that these letters should have arrived just when Mr. Schacht had

a motion on the subject to bring before them.

Mr. SCHACHT disclaimed any knowledge in regard to the

Mr. SCHACHT disclaimed any knowledge in regard to the letters beyond that possessed by other members. The fact that they arrived just when he was about to bring a motion on the subject before them was, he believed, a pure coincidence. He was very glad that Dr. Carpenter had written as he had done, because, though his letter might not alter

the opinions of any members of the Council, it would have great weight with the outside public. He then moved:—

That a committee be appointed for the purpose of considering the hest method of giving effect to the resolutions of the Council of April 5, you the report of the "Special Committee appointed to inquire n'othe relation to each other of Pharmaceutical Education and the Pharmaceutical Examinations," and of reporting thereon to the Council; together with any suggestions they may desire to advance as the result of their deliberations; and that the committee consist of the President, the Vice-President, Mr. Greenish, Mr. Hampson, Mr. Symes, Mr. Bottle, Mr. Hughes, and Mr. Schacht.

He said this resolution was a natural consequence of what had been done on April 5. On that day certain propositions were plainly and distinctly approved and adopted, and as practical men their next step must be to say in what way they would carry out those propositions. One of the first duties of the Committee would be to inquire into the question as to how far their present powers under the Legislature would enable them to carry out the resolutions which they had adopted. His own opinion was that they had such powers, and he sincerely hoped that their solicitor would confirm that view. Then there were other considerations. He had ventured in the last paragraph to indicate that, if in the course of their inquiry any further suggestions rose in the minds of the Committee as a body, they should have the power to report those ideas to the Council. This resolution was so obviously a natural outcome of the resolutions which had already been adopted that he did not think it necessary to further enlarge upon it.

Dr. SYMES seconded the motion.

Mr. Hampson asked Mr. Schacht to leave out the words "together with any suggestions they may desire to advance as the result of their deliberations." He said the Committee's duty would be to go into the details of the practical steps to be taken to carry out the resolutions, and the words he proposed to omit were entirely unnecessary unless Mr. Schacht wished to reopen the whole question and amplify his scheme. If they were to have further important recommendations on the same lines, he did not think such a thing had been contemplated at all. The Committee sat for a long while, and inquired into the matter very minutely, and the greater portion of their scheme was accepted by the Council. There was considerable danger if they passed this resolution of reopening the whole question. He thought what they had passed was all they required-perhaps rather more than they required—in the present condition of pharmacy. He hoped this motion would not be passed in such a way as to force upon the chemists of this country some grand philosophical scheme which might after all be a matter of thought, and not a matter of practical utility.

Mr. BOTTLE took it that the deliberations of the Committee would be entirely confined to giving effect to the resolutions, and any suggestions would have to be confined to that, and therefore the last two lines were unnecessary.

Mr. SCHACHT said he desired to be quite candid in the matter. It would be remembered that four recommendations were brought up by the Committee. Three were adopted, and the fourth was negatived by a very small majority. There was a good deal of discussion on the fourth recommendation, which had reference to the manner in which the examinations should be conducted. The Committee recommended that the examination should be divided into two portions, one of which should be conducted in the provinces and the other in London or in Edinburgh only. There were several different views on the matter. Among them was a suggestion that it should be divided, but that no portion should be conducted in the provinces; and another that it should be divided, but that the arrangement of subjects should be different from that suggested by the Committee. They were not absolutely unanimous as to any of the suggestions, and it occurred to him that the three resolutions which were adopted—though complete as far as they went—would not fulfil a complete scheme for the future. They must go a little further, and bring something forward in the place of the fourth recommendation. Almost as a matter of necessity the Committee must touch on the matter contained in the fourth recommendation, and if they came to the conclusion that a somewhat modified form of the fourth clause should be adopted, he thought it would be a pity if they should not have the power to present that opinion to the Council. He

thought the Committee would be justified in en ing upor this point of detail, for, after all, it was only point of detail. To give effect to resolutions 1, 2, and attach something in the nature of No. 4, a on the grounds he must decline to withdraw the words pieced to

Mr. Hampson said he admired Mr. Schacht rankner That gentleman evidently wished to reopen the hole que tion. They had passed three resolutions, but t of Mr. Schacht's soul depended on their pas gall for (Laughter.) Mr. Schacht was very frank in he respe but he was not quite so frank in another. I wished circumvent the Council, and to reintroduce quest, which was already disposed of. The Counc after we careful consideration and discussion, adopted are out four propositions, and he maintained that it we not to reopen the fourth, but to abide by the resolution adopted by the Council. The Committee had carry anot the will of Mr. Schacht, but the will of the outcil.

Mr. WILLIAMS very much agreed with Mr. mpson, seemed to him very strange that, after the Couil had cussed the matter and come to a distinct clusion, Committee, under the guise of carrying o what Council had arrived at, should reopen the we equest The Council had decided by a considerable norty no adopt the fourth proposition, and yet Mr. chach liberately wished to bring back the matter the state which it was before they gave their decision.

The PRESIDENT pointed out that the four proposition had been rejected by nine votes against eight this control be called a considerable majority.

Mr. Schacht said the Council had given opinion clause 4, except one—that the proposition the eform in which it was presented should no be adol Something would have to be said about the matter tained in clause 4, and he desired that the should have the power of completing that we was incomplete.

The PRESIDENT thought that was certainly e right to look at the question. Some portions of No must cup, and if he were in the chair he should trainly that they could be discussed, whether the lin referred were left in the motion or not.

Mr. GREENISH thought the lines objecte of certa offered an invitation to the Committee to red a the equestion.

Dr. SYMES said if Mr. Schacht withdrew must decline to serve on the Committee. It wild be side a waste of time to discuss the first three resitions a He thought the Council ought first to refer the natterty solicitor for his opinion as to whether they ould be carry out the resolutions. The scheme stood a four the Council had taken away one of these legs, had they asked to-day to report on a three-legged selve. It rather unfair for the Council to take away of the and not let them repair or replace it. The occasions when the Council had come to decision majority of one, and had afterwards regrett its decision. When the council the decision majority of one, and had afterwards regrett its decision majority of one, and had afterwards regrett its decision majority of one, and had afterwards regrett its decision majority of one, and had afterwards regrett its decision majority of the best thing to accept. If they were to be grown proposition which had been absolutely rested by Council the chairman would no doubt rule it ut of our two would therefore necessarily be a modified 1 m of the position.

The VICE-PRESIDENT (Mr. Atkins) hoped t Mr. Solwould withdraw the words objected to, and the Dr. Solwould not withdraw his name. He believed 1 the graph which Mr. Schacht desired to cover could be out retaining those words. If the Committee und that three legs would not stand without the four have to report to the Council. He believed to deal with the fourth recommendation in see way.

Mr. SQUIRE agreed that the recommendat is 1,2,4 were quite independent of the fourth. The rest was every candidate for the Minor should prodict apprenticeship; the second that the Prelim ry should passed prior to apprenticeship; the third, the himself for the Minor the candidate should that he had attended certain courses of lecture chemistry. The fourth was that the Minor at the fourth way. He could not see at the found anything whatever to do with the first the

GOST G and Mr. YOUNG also urged the omission of wo line but Mr. HILLS and Mr. BORLAND advocated they shild be retained.

HAMIN then formally moved as an amendment that ords "gether with any suggestions they may desire vance a result of their deliberations" should be ed. Haid if these words were retained he could not nt to aon the committee, but if the Committee conthemse s to the propositions which the Council had ed he hoo objection to serving.

en vote for the amendment and seven against it. The man ga his casting vote against it.

origin motion was then adopted by eight votes

### EXAMINERS' REPORT.

follow results of the June examinations were sub-1. There eight candidates for the Major, of whom assed: for the Minor, of whom 17 passed; and three e Modifi, all of whom passed.

### PROVINCIAL MEMORIALS.

resolutes passed by the chemists and druggists of orth-Easof Scotland at a meeting held at Aberdeen ted else ere) were read by the Secretary.

Secretar also read a memorial from the Stockport sts Assention urging that in any future legislation ng pharicy some attempt should be made to secure qualifie hemist the sale of all pharmaceutical preons, and if possible, the materia medica contained a, with sew manifest exceptions.

### ATT IPT TO BRIBE THE SECRETARY.

BREMRIVE (Secretary) read a letter from a candior the inor examination, offering to present Mr. dge wil the sum of 10% if he would ensure the s succes t the coming examination. The name and sof the iter, whose letter appeared to excite some nent as well as indignation, were not publicly

meeting en terminated.

## harm entical Society of Freland.

usual m thly meeting of the Council was held on lly 5, the resident (Professor Tichborne) in the chair. intgomer Messrs. Brunker, Pring, Hayes, Grindley, Simpson and Bennett were also present.

the for a business, a letter was read from Dr. R. W. stating is wish to resign the examinership in

PRESIDE suggested that Dr. Harley, who was at coment countries an examination in an adjacent should be sked whether he could conveniently assist next folling examination, so that the election for ocessor ald afterwards be held cotemporaneously he other ctions. The question was asked, but Dr. replied at he wished to be relieved at once from ities of expination, as, from the extent of his private te, he felt at he should be unable to devote to them cessary te and attention. His resignation was,

ore, accep I with regret.
etter was ceived from Mr. Adam Speers, B.Sc. of n Univers, and head-master of the Sullivan Schools atory, Ho wood, county of Down, dated June 28, ting that e chemical laboratory of that institution the recognised by the Pharmaceutical Society. The

gave partulars of the laboratory.

PRING, in ply to the President, said he knew Mr.

He was superior man, but he had never inspected

e PRESIDE: said it might be laid down as an axiom unless an cablishment of the kind was exactly suited at the Soci v required, it should not be recognised. they want was practical working for a given period independ t of any theoretical teaching. retical cours was a separate matter.

BRUNKER id he did not like the idea of adding any pols to the list institutions already recognised by the Society. The Euglish Society was making strides in the direction of a fixed curriculum, which was quite inconsistent with maintaining a connection with small schools that they kuew nothing about. The Society had already recognised two schools in Belfast, which were quite sufficient for the

On the motion of Mr. Brunker, seconded by Dr. Montgomery, it was resolved —

That the Council are not disposed to extend their list of schools of practical chemistry at present.

After other correspondence had been dealt with, Mr. Brunker submitted a report of the Pharmacy Act Amendment Committee. It gave a résumé of the amendments which the Committee had from time to time proposed to be made in the Pharmacy Act (Ireland), 38 & 39 Vic., cap. 57. These were in print, and had been circulated. The Committee now recommended for the consideration of the Council the following additional amendments:-

- That no pharmaceutical chemist or apothocary shall legally hold a branch establishment for the retail of poisons or compounding of prescriptions, except under the responsible management of a dulyqualified pharmacist.
- That all assistants engaged in dispensing must give sufficient proof
  of their competence by examinations, or by having passed a sufficient time as apprentices.
- 3. That all candidates for the license shall be required to produce evidence of having passed three years in a bond fide apprentice-ship to an apothecary or pharmaceutical chemist keeping open shop.

The President said he did not think the Council ought to go back on apprenticeships, involving fees. These had been discarded in every branch of the medical profession. If the Council wished to increase the time to three years spent in the practical learning of pharmacy, that was another question, and it should equally apply to apprentices and assistants engaged in compounding.

Mr. PRING said he never took a fee with an apprentice.

Mr. GRINDLEY remarked that there had not been time to consider the new recommendation.

The PRESIDENT proposed that their suggestions should be printed and sent round.

On the motion of Mr. Hayes, seconded by Mr. Bennett, it was resolved-

That the additions proposed by the Pharmacy Act Amendment Committee be printed and circulated amongst the members of the Council at an early date.

The report of the Committee appointed to examine the certificates of candidates for the license was submitted. It appeared that the certificate of one gentleman had been rejected.

Exception was taken to the action of the Committee in that respect; but as it only put back the candidate for three months the report was unanimously adopted.

Some formal business having been disposed of, the Council adjourned.

## Provincial Reports.

### ABERDEEN.

IMPORTANT MEETING OF NORTH SCOTTISH CHEMISTS.

A MEETING of chemists and druggists in the North East of Scotland was held in the Imperial Hotel, Aberdeen, on June 28. There were 27 present; 21 sent in apologies regretting their inability to be present. Mr. James Patterson occupied the

chair. The following business was transacted:—
Motion by Mr. W. M. Ferrier, Brechin, seconded by Mr. J. M. Munro, Aberdeen :-

That this meeting, heing of opinion that the chemists and druggists in the North of Scotland are inadequately represented on both the London and Edinburgh Councils of the Pharmaceutical Society, resolve to appoint a Committee for the purpose of inducing suitable candidates to allow themselves to be put in nomination at revy election.

Was carried uranimously, and the following gentlemen were nominated as a committee to carry the resolution into effect:—Messrs. Burrell, Montrose; Ellis, Banff; Robertson, Elgin; Chalmers, Huntley; Ferrier, Brechin; Reid, Sangster, and Strachan, Aberdeen; Mr. Strachan, Cravener.

Motion by Mr. Strachan, Aberdeen, seconded by Mr. Ritchie, Aberdeen:—

That this meeting approves of the report of the Committee appointed by the Council of the Pharmaceutical Society to inquire into the relation of pharmaceutical education to pharmaceutical examination as adopted by the Council in April last.

An amendment to this motion was made by Mr. John Gordon, and seconded by Mr. Presslie:—

That this meeting, while approving of recommendations one and two, disapproves of the proposed compulsory curriculum.

On being put to the meeting there voted-

For the motion, Messrs. Giles, Broomhead, Ritchie, Munro, and Strachan, Aberdeen; Messrs. Henry, Macduff; and Fraser, Clatt—7.

For the amendment, Messrs. Sim, Presslie, John Gordon, Johnston, Cruickshank, Spence, Mortimer, and Paterson, Aberdeen; Mes rs. Ferrier, Brechin; Stephen, Macduff; Simpson, Woodside; Simpson, Peterhead; Bertie, Auchinblae; Fewtrell, Turriff; Sievewright, Cullen; and Clark, Portsoy—16.

The amendment was declared carried.

Motion by Mr. John Gordon, Aberdeen, seconded by Mr. R. D. Preslie, Aberdeen:—

That, in order to enable assistants and apprentices to obtain an education suitable for the successful carrying on of the husiness of a chemist and druggist, this meeting is of opinion that the Council of the Pharmaceutical Society should formulate a scheme for the subsidising of approved classes for pharmaceutical education; or otherwise that the Council of the Pharmaceutical Society should memorialise the Science and Art Department anent the institution of classes suitable for the same.

Carried unanimously.

Motion by Mr. William Giles, Aberdeen, seconded by Mr. G. E. Broomhead, Aberdeen:—

That in the opinion of this meeting the provisions of the Pharmacy Act should be applicable to patent medicines and the compound preparations of the Pharmacopoeia, and that in the interests of the public the sale of such articles should be confined to chemists.

Carried unanimously.

Motion by Mr. J. Hay Henry, Macduff, seconded by Mr. Clark, Portsoy:—

That this meeting approves of the formation of a Chemists and Druggists' Society for the N.E. of Scotlaud, and resolves to take the necessary steps for having such a Society constituted, and that it be remitted to the Aberdeen Society of Chemists and Druggists to report.

This motion was carried nem con.

After the usual votes of thanks the meeting terminated.

After the meeting the annual dinner of the Aberdeen Society of Chemists and Druggists was held at the Imperial Hotel. Most of those present at the meeting attended. Mr. Broomhead, the President, occupied the chair; and Mr. Munro, Vice-President, acted as croupier. After a substantial repast a number of toasts were proposed, including "The Queen and Royal Family," by the Chairman; "The Aberdeen Society of Chemists and Druggists," by Mr. Fewtrell, Turriff, replied to by Mr. J. Gordon; "The Pharmaceutical Society of Great Britain," by Mr. J. A. Henry, Macduff, replied to by Mr. W. Sinclair, Aberdeen; "The Town and Trade of Aberdeen," by Mr. J. W. Stephen, Macduff, replied to by Mr. D. Ritchie; "Country Friends, by Mr. J. Sim, replied to by Mr. J. Clark, Portsoy; "The Ladies," by Mr. W. Giles, replied to by Mr. R. D. Presslie; "The Croupier," and "The Chairman." In the evening a number of the members drove out to Corby, where, after enjoying an hour's stroll in the pleasant grounds, they were hospitably entertained by Mr. and Mrs. Paterson.

### EDINBURGH.

THE COUNCIL OF THE EDINBURGH CHEMISTS', ASSIST-ANTS', AND APPRENTICES' ASSOCIATION offer two prizes to be competed for by apprentices who are members of the Association. The competition is to be in the form of a written examination, comprising Latin, English, arithmetic, elementary chemistry, and pharmacy, early in October, 1882. The first prize, value 2l. 2s., will be a ticket, tenable for one session, admitting to the classes on chemistry, theoretical or practical, conducted by Mr. Falconer King or Dr. Stevenson Macadam. The second prize, value 10s. 6d., may take any orm the winner may desire.

### GREENOCK.

An Amateur Doctor's Charges.—At it small-court on June 14, Robert Aitken, blacksmith led Wil Cunningham, pansman, for 31, for "time, trole, and penses incurred by him in buying stuff an naking lotion for defender's use." Thirty bottles haven but and 2s. each was charged for them. Aitken und a refor a lotion which was very popular as a cure to burns sores. The defender had 30 bottles of the lot for a Mr. Stronach, for the defender, said that the lond more harm than good, for he had been confine to the for six weeks with the burn. He had offere pursuer but the offer had been refused. The city alyst had amined the stuff, and, stating that its princil ingre was carbolic acid, fixed its value at 2d. pottle. Sheriff advised the pursuer to settle with the cender ultimately the 10s. was accepted.

### ULL.

FIRE.—Considerable damage was done by a first occurred on the premises of Mr. F. Eade, c mist, M. Place, early in the morning of June 27. The remises burning for about an hour and a half. It dama covered by insurance.

### HYDE.

PROSECUTION BY THE TRADE ASSOCIATIO: At the Petty Scssions on June 19, Owen Stafford, of 1 Mark Hyde, was summoned by the Chemists and I ggists' Association for selling laudanum not proper labeled June 12 Mr. Templeman, the assistant-secreta, visited and purchased a 6d. feeding-bottle, some listed and purchased a 6d. feeding-bottle, some listed wo pennyworth of laudanum to mix with laudanum was put in a bottle labelled Stafford, formerly with T. Standring & S. Manc Medical Hall, 51 Market St., Hyde," but wi but the of the poison. The offence was admitted, if the fined defendant 10s. and costs, allowing the guin the advocate's fee, as they considered that the cost lawe been conducted without his aid.

ADULTERATED SPIRIT OF NITRE AND REGORE the same Court Joseph Green, grocer, Hye was continuous and advantage of the shop a spirit. When told it was to be analysed shail it matter, as she sold it as she got it from a After it was paid for she drew the constable attentiabel at the bottom of the bottle which state that it pure, and would not stand the test. The an sticer showed that it contained 25 per cent. of wer. A 10s. and costs was imposed.

James Buckley, of Micklehurst, was similar offence. The spirit, which had bee been bo Bickell's, of Ashton, was adulterated with water. He was fined 10s. and costs.

Thomas Farrand, of Tintwistle, pleaded illy to sold a quantity of adulterated paregoric. I as adult with 17 per cent. water, and contained no purchased it at Bostock's, Ashton, and the give him a warranty. Fined 10s. and costs

### SHEFFIELD.

THE NEW CHEMIST.—The Sheffield Teleguh relation a recent Sunday morning a sprightly 50 3 chemical had lately commenced to deal out bolus and pile populous district of that town, was seatt at his watching the people on their way to christian that most of them stopped awhile opposite is shutton that most of them stopped awhile opposite is shutton passed on smiling all over their face curiosity he also went out to look, and for inscription in front of his window:—

There is a young chemist lives somewherer, Whose pills are as strong as Australian to So should you want medicine go you to lead to be certain to put you in proper good im, That's if you have money; but if you have money; he will probably kill you before he has defined to the sound of the s

That rhyme was soon removed, and the oung constead of going to church, went into the wis to me

### HARMACY IN AUSTRALIA.

ROM OUR OWN CORRESPONDENT.)

MELBOURNE, VICTORIA, May 8.

the moing of the Pharmaceutical Society of Victoria, beld o April 14, the appointment of office-hearers for hear 18-83 was proceeded with, and the following men re unanimously re-elected:—Messrs. William, Pretent; John l'urner Thomas, Vice-President; Gamb Treasurer; and H. Shillinglaw, Hon. Secre-In reining thanks for the honour conferred upon he Present congratulated the memhers of the Society contin d prosperity and increasing influence in this to rei bouring Colonies, and said that during the car be noped to see the Society take possession of

new buling. manar of the Warrenheip Distillery Company gave ne interesting particulars hefore the Tariff ission h respect to that industry. He stated that mpany ow turn out 72,000 gallons of whisky, gin, irits of ine annually, which they sell at 4s. 6d. per Gove ment, they are, as a matter of fact, proin bor but as a duty of 4s. per gallon is allowed at the ate of something like 100 per cent. t represted by this differential duty is within 1,600%. total vae of the company's yearly operations.

e open g of Parliament on April 26, an Address in o the vernor's Speech was moved in the Legisla-sembly Mr. C. K. Blackett, M.P.

ose exc ment was created in Melbourne last month t becan known that a case of small-pox had occurred very het of the city. Luckily, up to the present lictorianas entirely escaped this much dreaded The ost gloomy forebodings were indulged in, was herally expected that the disease would spread Happily, this has not been the case, for it more the 14 days since the outbreak was discovered, other des have heen reported. Prompt measures aken bithe Government in the event of any fresh ccurring the evening newspapers added greatly to we by uing second and third editions with very rated ac unts. A very large number of persons have een vacnated.

Presiden Vice President, and Hon. Secretary of the secutica Society of Victoria waited on Mr. E. W. .P., on Aril 27, and, in acknowledgment of services ed by theon. gentleman to the Society, handed him 40 for . as a contribution to the Mansion House or the lief of the persecuted Russian Jews. The accutica Society selected this mode of expressing ppreciat of Mr. Zox's services as the one which lought wild be most agreeable to his feelings. Mr. the treaser of the Russian Jewish Relief Fund in

esentation have heen made to the Board of Pharin one of wo occasions that shopkeepers of various inations ve set portions of their premises apart for e of drug under the superintendence of some impeschemis who, very likely, for some reason or other, trade in e usual way). If once such a deviation is d, then a y must go all that we have been contendrduring e last quarter of a century. It was bad a for the harmacy Board to he compelled, hy the loss of the Act, to register as pharmacists all those efore its ssing had any pretentions to the sale of ines, thus many instances legalising charlatans.

framers othe Pharmacy Act also, no doubt, thought very title nder which a chemist could trade legally en invoke to prevent false pretences; but the cunwhich is inherited specially by persons without them also in this particular, and an n of the A is practised by persons calling themselves

F. S. Grin ade (Messrs. Felton, Grimwade & Co.) has elected present of the Melbourne Chamber of Com-

e cultivation of chicory and arrowroot is heing tried the first tie in the Gippsland district this season, as in the case of hops and maize, there seems

to he very little doubt about the suitableness of the soil and climate for their production. An acre and a quarter of chicory has been planted in the Struan hop-garden, and the weight of roots obtained has amounted to about 25 tons, which it is expected will represent 4½ tons when dried. From 40l. to 50l. worth of manufactured arrowroot per acre has been obtained both in Gippsland and upon the Hunter River in New South Wales, hut in neither place has the husiness extended beyond one or two growers. The manufacturing process is simple, being the same as making farina or potato-flour. The roots are grated down into water, and the particles are allowed to settle at the hottom of a trough. Clean water is added until all impurities are removed, and the sediment which remains, when dried in the sun, is pure arrowroot ready for market. No more lahour is necessary in growing arrowroot than in cultivating potatoes, and it is strange that what appears to be such a profitable industry is not more generally entered into in Gippsland, where the crop will flourish.

### PHARMACY IN NEW ZEALAND.

MEETING of the Pharmacy Board of New Zealand was A held in Christchurch on May 10 with daily sittings throughout the week. This was the first fully representative meeting held since its constitution under the Pharmacy Act of 1880. There were present—Messrs. C. D. Barraud (Wellington), president; G. Aickin (Auckland), J. V. Ross (Christchurch), T. M. Wilkinson (Dunedin), and J. A. Allan (Wellington), secretary.

The President, in his opening remarks, stated that up to the present time there were 234 chemists and druggists registered under the Pharmacy Act of New Zealand; and that as soon as examinations were established in the four centres proceedings would be instituted against all unregistered chemists carrying on business. It was determined to hold examinations simultaneously at Auckland, Wellington, Christchurch, and Dunedin, the first to be held in the first week of July, due notice of which would be given to intending applicants for registration. After a prolonged and careful consideration, it was resolved—"That the modified examination of the British Pharmaceutical Society be adopted for the present standard, and that a higher standard, the syllabus of which was arranged, should come into operation, in whole or part, with the new elective Board, in January, With a view to reciprocal recognition of diplomas, it was agreed to communicate with the Pharmacy Board of Victoria, New South Wales, Queenslaud, and Tasmania, ascertaining the standard of efficiency necessary to insure mutual recognition. A series of text-books for the use of students in pharmacy was approved, and it was ordered that the conspectus of education required by the Board should be printed and circulated through the local registrars. and that every facility should be given to place pharmaceutical education on an efficient and permanent footing. The official register of registered chemists for 1883 will be bound up in pamphlet form with the Pharmacy Act of 1880, the Sale of Poisons Act, 1871, and the "Syllabus of Educa-

Also in the same week, and at Christchurch, the second annual meeting of the Pharmaceutical Society of New Zealand was held.

The President (Mr. C. D. Barraud) gave an interesting address, containing a retrospect of the Society's work, and indicating a line of policy for the future calculated to increase the interest taken in the Society's proceedings and promote the useful welfare of pharmacy. As the constitution of the Society provides that the annual meetings shall be held alternately at Christchurch, Auckland, Dunedin, and Wellington, he thought it only right that he should resign his position, and that a Christchurch president be elected, with the head office also in that city.

On the motion of Mr. Aickin, Mr. J. V. Ross was unani-

mously elected president for the year. The newly-elected president then proposed a cordial vote of thanks to Mr. C. D. Barraud (the retiring president) for his unremitting labours at Wellington in promoting the new Pharmacy Act. Carried

unanimously. The secretary, Mr. J. A. Atlan, of Wellington, also tendered his resignation, which was reluctantly accepte 1.

A high tribute of commendation, accompanying a vote of thanks, was paid to Mr. Allan by the members present, for the efficient energy devoted to the interests of I harmacy and pharmaceutical education.

Mr. C. M. Brooke was elected secretary, and Mr. M. M.

Irving treasurer.

It was resolved that the annual subscription be reduced

to one guinea, and to assistants half a guinea.

The offer of Mr. O. V. Morgan, one of the proprietors of the English CHEMIST AND DRUGGIST, to supply onies of that publication to registered members through the Society was accepted; and Mr. Aickin, of Auckland, was appointed to edit and supply communications for transmission from the colony.

The president of the Victorian Plarmaceutical Society was elected an lo. olary member of the Pharmaceutical

Society of New Zealand.

It was proposed by Mr Barraud and carried unanimously -"That a c r dal vote of thanks be received and forwarded te Messrs, C. R. Blackett, M.P., Joseph Besiste, M.P., of Victoria, and Harry Shilling'aw, seere ary Victorian Pharmacy Board, for their willing and generous assistance in promoting the working of the Pharmacy Act by valuable in. formation freely supplied at all times.

The sum of 100%, was voted for the purchase of books as the nucleus of a reference library, to be equally divided beween the Iccal centres of Christchurch, Dunedin, Wel-

lington, and Auckland.

The introduction of medical plants for educational and industrial purposes was considered highly desirable, and the secretary requested to write to the several Domain Boards throughout the colony asking them to co-operate.

After a vote of thanks to the president, the proceedings

terminated.

### AMERICAN PHARMACY,

NEW YORK, July 3.

SINCE my previous letter there has been but little of stirring news in the line of stirring news in the line of pharmacy and its accessories.

In pharmaceutical societies two new State organisations have been effected, both of them with great success. They were noted in course of formation in my previous letter. The association in Massachusetts organised with two hundred members, paid up, and the Indiana association had nearly two hundred and fifty present at the initial meeting. I neglected to mention in the previous list of State pharmacentical organisations Missouri, while still another one formed last month in Nebraska, so that there are to-day no less than twenty six vigorons and active Sa'e pharmaceutical associations in the Union, besides numerous local organisations in cities or counties of several of the States.

This is practical progress, and it will prove to be a great incentive to thorough advancement in pharmaceutical

education and literature in our land.

The progress of the new Pharmacop cia is satisfactory to the committee, over one hundred pages being in type at present and undergoing the careful scrutiny of the members, that errors of all kinds may be avoided. It will be ready for

distribution probably by September 1 to 10.

Your Editorial Notes in the June issue take up the wail of the disappointed ones: but there is no doubt, whether the most profitable or not, the committee have made a good selection, and one which will amply repay the committee in every respect for the past, present, and in ure work, and far beyond what any former committee ever received.

The topics referred to in the April letter, of rebate and contract system and the spirit tax, may be again referred to briefly. Toe former is being satisfactorily carried out, and manufacturers of proprietary remedies are rapidly falling into line. This month brings many new accessions to the number who have by this plan secured to the wholesale trade a fair margin of profit, and in almost every instance without any increased cost to the retail purchaser. It cannot fail to give satisfaction to the great bulk of purchasers, the dissatisfied ones being chiefly the few retail purchasers who think they sicult bay a quarter dien at the griss

The larg discussions in Contress have not set produced the hoped-fir reduction in spirit tax, and the ne repproaching end of the session makes it doubtf where er so a result will elec implished new. It ought to ed ne, but, how to make it satisfactory to all, and yet into greatly to distrabit, e accust med ow of revenue, seems to be the des leratum set stellscoverel.

The manufacturers of proprietary articles are hopeful that ti stamp tox on their comme lines will shortly be at lished, and it my come even yet; but t'e sh rt time ! ft is making

s med. lear ened at the pr spects of suc ...

In plasmacy project there is little new to record; the steady enforcement of pharmacy laws, the more care: ... examinations of the call gest of pharmacy and the Sachards, are n. ki g cur young men mere studious and intelle ut, and in the fallie dar profession will a more a represented tlan interest as , as i proless more practice results in the fill of pour machine and recarries and discovery.

By the way, I tlink if some of the return of the goill in Land nor the provinces were to take a summer va ation and at end the meeting of the American Plarn acentical Associa in at Niagara Falls, in Septem in they will did 'e doubly raid for their time, for they would mbine, no only one of the finest trips on this side of the globe, but also be present at one of the largest and hese gatherings of plarmacis s that has yet been or probably will be for some years convened. I most cordially extend on behalf of our pharmacists and the American Pharmaceutica. Association an earnest invitation to our British brethren to attend this meeting, and can assive them that they will meet with a most hearty and cordial welcome from their American con-P. W. B. freres.

### CHEMICAL SOCIETY.

June 15.

Dr. Gilbert (President) in the chair.

The following papers were read :-

"Note on & Naphthaquinone," by C. E. Groves. The author has repeated the experiments of Liebermann (Ber. 14, 1310) as to the preparati n of the above substance from B naphtholorange, and fully corroborates the results of that chemist, but disagrees with him as to the value of the process economically. He has somewhat improved Liebermann's method by using less stannons chloride, but finds that even then it is more troublesome and tedious than the conversion of B naphthol into the amido-naphthol through the nitroso compound, &c. The cost of Liebermann's process is four times as great as the one originally proposed by Stenhouse and Groves. In preparing either a or B naphthaquinone from the corresponding amido compounds, the author prefers to use ferric chloride as the oxidising agent.

"On some New Compounds of Brazilein and Hematein," J. F. Hummel and A. G. Perkin. Extract of logwood is dissolved in het water, and when cool ammenia is added in slight excess. This solution by exposure to the air deposits a dark purplish precipitate of lamatein, which on purification gave numbers indicating the formula C, H100; by the action of cold sulphuric acid an orange crystalline substance, C, H 20, SO., was obtained. By the action of hydrochloric acid in sealed tubes hydroxyl is replaced by Cl(C, H,O,Cl); a similar body is produced by hydrobromic acid. Brazilein was prepared in a similar way from Brazil extract. It forms

compounds which resemble those of hæmatein.

"On the Determination of Nitric Acid as Nitric Oxide by means of its Reaction with Ferrons Salts," Part 2, by R. Warington. The method is founded on that proposed by Schlossing, but the nitric oxide is collected and determined by gas analysis, the gas being absorbed by caustic potash after successive treatments with oxygen and pyrogallol; great care was also taken to exclude all oxygen from the carbonic acid used.

"On a New Process of Bleaching," by J. J. Dubbie and J. Hntcheson. The anthors have investigated various methods of liberating chlorine by decomposing hydrochloric acid and chlorides with a weak electric corrent. The best results were obtained by moistening the goods with sea-water, and passing them between two slowly revolving carbon rollers, which were connected with opposite poles of the battery; sodium hypochlorite was formed in the fabric, and on immersion in acid the bleaching was effected. Results were also obtained with dilute hydrochloric acid. Pure hydrochloric acid also bleaches when thus decomposed.

### THE SOCIETY OF CHEMICAL INDUSTRY.

THE first annual meeting of the Society of Chemical Iudustry was opened on July 5, at Owens College, Manchester. The chair was taken by Professor Roscoe Presideut, Among those present were Professors Abel and Huntington, Mr. E. K. Muspratt, Mr. Ludwig Mond, Mr. David Howard, Mr. John Williams, Mr. Tyrer (London Secretary), Mr. Peter Spence, Mr. Frank Spence, Mr. Schofield, Mr. W. S. W. Astbury, Mr. George E. Davis, Dr. Hewitt, and others.

The PRESIDENT said that last year the number of members was 297; it is now 1.140, consisting of gentlemen connected with the most different departments of industrial chemistry, and many distinguished English and Continental scientific chemists. During last autumn there have been founded a metropolitan section, under the chairmanship of Professor Abel, C.B., F.R.S., and another under the direction of Mr. E. K. Muspratt. The first number of the Society's Journal appeared in January. The Publication Committee was fortunate in securing Mr. Watson Smith, of Oweus College. as editor. They have net only endeavoured to secure reports of the proceedings at the sectional meetings, but to make the Journal a complete epitome of the progress of chemical industries throughout the world. They have engaged a number of qualified abstractors, who furnish able accounts of the newest discoveries and patented inventions in the various branches of applied chemistry. Above all the Committee have determined to uphold the scientific status of the Journal, convinced that a healthy practice can only exist when based on a sound knowledge of theory. Last year he drew attention to the fact that although the greater part of the raw material used in the manufacture of the eoal-tar colours is produced in this country, we imported from Germany and Switzerland by far the larger quantity of the manufactured colours, and lose the profit of an industry of the value of above three millions sterling. He had recently visited a new and comparatively small coal-tar colour work, erected on the banks of the Rhine at Basle, by Messrs. Binscheidler and Busch. The scientific director of these works is a thoroughly educated chemist, able to make use of the discoveries emauating from the various scientific laboratories of the world, and under him are three scientific chemists, to each of whom is entrusted one of the three departments into which the works are divided. These head chemists, who have eujoyed a thorough training at the Zurich Polytechnicon, have cach several assistant-masters placed under them, and all these have had a theoretical education in a German university, or in a polytechnic school. Directly under these scientific assistants come the common workmen, who have of course no knowledge whatever of scientific principles, and who are in fact simply machines acting under the will of a superior intelligence. There are no less than ten well-equipped airy experimental laboratories, distinct from the workshops where the manufacturing processes are carried on. In these ten laboratories the chief departmental chemists and their assistants carry on their investigations respecting the production of new colouring matters or the more economical manufacture of old ones. To assist them in this work a complete scientific library is at hand. Dr. Binseheidler had furnished a specially representative case. Through the original investigations of the Messrs. Fischer attention was drawn to a colourless base obtained by the action of benzaldehyde on dimethylaniline. The salts of the colourless bases became green on exposure to air, and an endeavour was made to effect the practical manufacture of a green colouring by oxidising these colourless bodies. In order to attain the desired end the following points had to be cleared up by the chemist and his assistants who were to conduct the operations. First, a cheap method for mannfacturing benzaldehyde (commonly known as the oil of bitter almonds). Secondly, a profitable mode of making the colourless bases.

Thirdly, the proper oxidising agents and their best method of application. Fourthly, the best method of purifying and erystallising the green colouring-matter. The laboratory experiments having proved so far successful as to give prospect of good results, operations on a somewhat larger scale were started, and these yielding a satisfactory issue, the manufacture of the colouring-matter now so well known as malachite green was commenced on the technical scale, the operations being constantly under the control of the chemist. Laboratory experiments still go on for the purpose of improving the mode of manufacture. The improved yield, both as to quality and quantity, of the benzaldehyde is a matter of investigation. The synthetic production of purc colourless bases by a more direct process is sought for, so as to get rid of less in working, and to obtain a yield as close as possible to that pointed out by theory. Improvements in the materials used for exidation and in their application are made so as to effect the oxidation quantitatively without by products. The action of the various solvents is examined to obtain the best form of the crystallised colouring matter. These improvements, made after the colour became a marketable article, have reduced the price of crystallised oxalate from 27, to 11, 4s, per kilo. Here is a picture of really scientific work, where each step is made systematically as the result of a well-devised plan. This is indeed the only means of progress. Each of the larger colourworks at Hoechst and Ludwigshafen pissesses a staff of from 30 to 40 well-paid, thoroughly-trained chemists. We may with truth say that the English industrial chemists have been at least as successful commercially, and certainly as productive in new and important discoveries, as their Continental rivals. The Germans and Swiss, however, are still distinctly before us in the general recognition of the importance of technical training for success in any branch of applied science. Such a training can now be obtained in our own country.

The Patent Laws Committee reported that there was no hope of legislation for some time to come. During that day and the next technical papers were read by Professor A. K. Huntington, Mr. Charles O'Neill, and Mr. A. M. Chanee. Ou the motion of Mr. John Williams, seconded by Mr. Newlands, the office-bearers were reappointed., Professor Abel taking

the place of Professor Roscoe as President.

On July 5-there was a dinuer, at which about 120 gentlemen sat down. The works of Messrs. Whitworth, E. Potter & Co., calico printers, and the Manchester Ice Company

were thrown open to members.

On July 6 there was a soirie at Owens College, which was an unqualified success. One of the most striking features was an exhibition of printed calicocs, lighted by Edison electric lamps, lent by the Manchester District Edison Electric Light Company. An exhibition of objects under the microscope was conducted by Mr. G. E. Davis, general secretary. Many firms showed specimens of chemical products, illustrating various manufacturing processes. Among these were Messrs. May & Baker (mercurials, bismuth, camphor), Howard & Sons (alkaloids and camphor), Muspratt, Tennant, Gaskell, Deacon & Co., and others. Many of the ladies present were attired in calico.

On July 8 very interesting excursions took place simultaneously to Radcliffe, St. Helens, and Widnes. About 120 persons were present, the majority going to Widnes.

The next annual meeting will be held in 1883, in London, when Professor Abel will deliver his address as retiring president. The London section has already 500 members. We may, perhaps, mention here the syllabus of a course of technological chemistry, under Professor Roscoe, to be opened at Owens College in October. It extends to four years, and provides a complete course of instruction at something under 301 a year.

HOSPITALS AND SECRET MEDICINES.—The Pharmaceutische Zeitung, June 14, 1852, states that the President of the Epileptic Hospital Bethel, near Bielefeld in Westphalia, where, within a period of a little more than 15 years, thousands of persons have been treated, and where over 500 persons are under care, has expressed his readiness to give gratis information to any patient wishing it as to the best ascertained treatment there adopted, so as to keep persons ont of the hands of charlatans.

### DICTATORIAL SCIENTIFIC UTTERANCES.

DR. LIONEL S. BEALE delivered a spirited reply to U the advocates of the physical theory of life, such as Herbert Spencer, Huxley, and others, at the Victoria Institute on May 15. As the topic is one in which all who read scientific works have been necessarily interested, Dr. Beale's criticisms will be of service, and we regret that we are obliged to limit cur quota ions to a few indicative paragraphs. Dr. Beale's paper was entitled "Dic'atorial Scientific Utterances and the Decline of Thought." following selections from the lecture are suggestive of the whole:-

Materialistic doctrines have now been taught for so many years that they have come to be looked upon as a sort of belief, or faith, which ought to be at once accepted by all who desire to be considered, from the materialistic point of view, as reascrable persons. Any who should be so rash as to inquire concerning the exact meaning of the terms employed, would be, of course, altogether beneath notice, as they would prove, by the doubt they implied, that they belonged to that large group of unteachable persons not included among the wise, the learned, or the cultured.

Positive conclusions have been drawn concerning questions of momentous consequence not only to curious and scientific people, but to mankind at large, and have been advocated with a confidence which precludes doubt, and reiterated with a pertinacity which is calculated almost to enforce acceptance. But few of those who are carried along by the materialistic stream have troubled to think over the remarkable tenets to which they have given their assent. They receive with a faith, called robust, which seems so blind and unreasoning as to border on credulity, dogmatic and dictatorial conjectures of the most extravagant kind, convinced, but not by reason, that the authors of them could not be mistaken in the views they advanced with such positive and undoubting emplasis.

I would draw attention to the declaration again and again repeated, and now taught even to children, that the living and the non-living differ only in degree, that the living has been evolved by degrees from the non-living, and that the latter passes by gradations towards the former state. No one has adduced any evidence in proof of these conclusions, which are, in fact, dictatorial assertions only, and no specimen of any kind of marter which is actually rassing from the non-living to the living state, or which can be shown to establish any connection between these absolutely different conditions of matter has been, or can be at this

time, brought forward.

Let me beg of you not to allow the mind to be diverted by fanciful comparisons and asserted resemblances of the living to the non-living, from the careful consideration of the real differences between that which is alive and that which is not alive. This question of difference or resemblance between vital and physical will be found to underlie some of the most important speculations of our time, and I cannot too earnestly draw your attention to the very great importance of insisting that the facts and arguments advanced by materialists should be clearly stated so that they may be thoroughly sifted, and fairly discussed, instead of vague assertions in favour of wide generalisations being accepted without examination or inquiry. If examined not a few of the conclusions will, I am sure, he dissipated at once, for they will not stand the test of careful analytical exposition.

The popular scientific doctrines of the last few years a'l seem to admit some vague, imaginary, non-existing first cause, of which neither the nature nor the attributes have been defined, and which is placed at such a remote distance in time from the present era, that in us it can hardly excite more interest than the possibility of a shadowy phantom in an all pervading primitive mist. There seems to be a fanciful conception of material atoms being evolved from the void; but it is, of course, useless to ask why, when, or how? By ene supreme mysterious fiat, or effort, beyond, above, and independent of all law, eternal forces and properties were conterred upon these atoms, I suppese, at the moment of their evolution from the nothing, by virtue of which they restlessly gyrate. The vibrations communicated to atoms by the first impulse then came under law, and, in obedience to laws supposed to have been enacted in the fi beginning still continue their movements, and being ad upon h and acting upon other atoms, actions of the 1st comp character are established. Gradually these ctions supposed to take the form of life, and, as eages he rolled on, living forms have assumed a high charac until, at last, the evolution of man himself as coner mated. Of all things, the farthest remove from remote cause of his existence, man, the only beg in nat longing to know of law, of cause, of consequice, is consequice, is consequice, is consequice, is consequice, is consequice, is consequing to know of law, of cause, of of manded to see grandeur, and more than graeur, in fanciful suggestion of a creator of molecul of cos vapour out of which earth, and air, and wat and et form of matter, non-living and living, were according the hypothesis, gradually formed, or evolved emselve obedience to some compulsory arrangement, r not to accurately defined necessity, or "law," suped to been enacted for once and for all by the Creatin the beginning, and still causing everything and perating everything up to this very day.

We are not only told how we must look nature precisely what we are to see is most accura y descri exactly as it has been discerned by the Lateria intellect, and caused to assume a form fit to receive the people at large. The moving forces al mole mechanisms have been revealed. Nature healf has discovered. And a very pretty nature, i eed, is materialistic nature which has been embodie by author and held up for the contemplation and admirton of kind. Instead of the benign nature of the Ejurean, gave to all, which made all, and which provid for a have a benighted nature in the shape of a bli, insat relentless, irresistible fate, falsely called w-wo like a dull, senseless machine of overwhoing maining, crushing, distorting, destroying, it thus tinuing and preserving-destitute of intelligee and t -devoid of justice and mercy. A nature necontrib to the happiness or enjoyment of any, workin upon a peopled with machines and continued by the estruct the products of ever-recurring, ever-failing nintell undes gned experiment. A nature whose v is it worked out by length and strength of tool and cl nature which must be detested by the good al despir all who can think, and see, and reason. Suc s the n world which is held up for our admiration ith the soling assurance of dic atorial authority that sprang chaos in obcdience to everlasting self-origining ( and that it will return to chaos, in obedience the s all life, and work, and thought being but the ndulati cosmic nebulosity, and dependent upon the ever-co gyrations of innnite, everlasting aroms, through the ages from void to void.

This, the dullest, the narrowest, the most perficia creeds-materialism, which includes some moure of theism and atheism of various forms and les-ha half accepted by hundred, of persons durin the la years. I believe all materialistic dectrine vary a may in detail, will be found to agree in accepting as a -if, indeed, they are not actually bas on I monstrous assumption that the living and th on-live ore, and that every living thing is just as mh a m as a watch, or a windmill, or a hydraulic app www.

According to the material contention, ever biog of existence to the properties of the material picles which it is constructed. But is it not strang hat it seems to have occurred to the ma erialist devoter neither the watch, nor the steam-engine, nor he win hnor the hydraulic apparatus, for any ler misknown to or made by any individual this is dependent for its construction upon e profession of the material particles of the mater it of its several parts have been constructed? Who think of asserting that in the properties bras iron or steel we shall find the explanation of he con tion of a watch? It has been often affirmed positit dictatorial language that the formation of thinimal to the properties of the particles of which i body is posed.

"Protoplasm" and "Physical basis of Life have a into many dictational utterances, and the rds m this time be familiar to everyone. But if wendeave

exact meaning which is attached to the words, d try to ake an accurate estimate of their value with report to the welight supposed to have been thrown by their eupon question of the nature of life and the relation non-livity to living ma'ter, we shall find that our task is tan east one. Protoplasm, it is sail, is the physical basis life. In moving matter in the hair of a nettle, or in a meba of a white-blood corpuscle, white of egg, boiled ster, and that been said, composed of protoplasm and natitute e physical basis of life. Upon the molecular angest to a grace in these different forms of matter, life, has been firmed, depends, and all of them, it is said, are mosed "molecular mechanisms."

No one of attentively study the statements, and apply mind to he examination of the assertions which have en made ithout observing that the same name, protosm, is a lied to matter in essentially different states. ring mate is called protoplasm; dead and boiled and sted marris also called protoplasm. Living matter, dead tter, andoasted matter are all the physical basis of life. at whic is not only dead, but has been dead for a g time, the basis of life. The matter of a living thing ich is ale at the time is also a "physical basis." ich is ale is a physical basis of life, and that which is id is equally a physical basis of life. Such is the reply de to the uestion, What is the difference between living tter and e same matter which has ceased to live? Such he meth hy which it is shown that the difference been the ing and the non-living is not a difference in d, but degree only. Such is the method by which ple hav been misled and eonfused. It is, of course, reidle ling of the most transparent character. But r person bave taken the trouble to carefully examine statemes with the object of discovering exactly what the mining the author intended to convey. Many, haps th majority of readers, are content to catch the rds, wit ut troubling themselves to ascertain what aning out properly to be attached to them. Perhaps feel m confused, and not liking even to think dispectfully f the writer, they persuade themselves that fall conferation of the question is beyond the province well as t capacity of busy people engaged in the ordilife, and that, therefore, they must accept bout indry the assertions as the authoritative utteres of gifl spirits.

would have little chance of being received steel had they not been advanced at a time ch was parkable for the decline of thought, and for dislike fear of examining and analysing authoritative

be phra "undifferentiated protoplasm," as contrasted h "diffentiated protoplasm," is now often used. Idren are sked questions about it in elementary examitors, and et no exact meaning has been given by any to the time, and et he serse in which the words are often is increct. The "differentiation" of protoplasm coft the cant terms of the time, and is supposed to lain a grt deal, while it only deceives and confuses; instead of differentiation being an explanation of age, or the cause of change, as is implied, it is really a way f stating a fact. If it is correct to call the differentiated matter by the same name, because the texhibits henomena absolutely distinct from any manited by the sat.

In his add ss to the Medical Congress, Professor Huxley the assabled medical and scientific men that "the uplest par le of that which men in their blindness are ased to contain the sense of the sense

Professor valey has been continually propounding and alting forw d conjectural utterances of the kind during be last 20 Jrs, and it is surely time now that something

more substantial should be brought forward in support of the dogmas than eonjectural chains of causation. Just think over the paragraph I have read, and try to extract from it any sense it may contain. We are teld that "the protoplasmic foundation of life and organisation" is connected with "the nebulous original of suns and planetary systems," by "one chain of causation." Can an individual he found who will undertake to defend or to expound these nebulous utterances? If they amuse, they will certainly delude and mislead an audience. Here is an example of what is considered good for the purpose of advancing scientific education. That talk of this kind shoull he deemed likely to enlighten the medical profession, or assist in any way to advance medical education, is most extraordinary.

It is not pleasant to have to differ from Professor Huxley, for not only has he a multitude of enthusiastic admirers, but he is himself a master in the use of very robust language, particularly when he deigns to refer to people who do not agree with him. Some who are unable to accept as the exact truth what he affirms to be the truth have been spoken of as higots, and it is possible that some other epithets may yet he found to still more decidedly characterise people who are opposed to his doctrines. Only the other day it was said that a truth which, according to Mr. Huxley, had been "trodden under foot, reviled by bigots, and ridiculed by all the world," is "only hated and feared (!) by those who would revile but dare not"! Professor Huxley likes the word "revile." To say that people who differ from you revile you is, undoubtedly, an ingenious way of getting out of a great difficulty. When you are asked to explain what you mean by some very confident dictatorial utterance, and if you feel that you cannot do so, there is nothing like accusing your opponent of reviling. Any evolutionist who has a question put to him which it is inconvenient to answer, and which it would be imprudent on his part to discuss, is "reviled." But whatever the consequences, I shall venture to make some remarks on a few of Professor Huxley's recent utterances, even at the risk of being also condemned as a reviler.

What do you think of the attempt to convince people of similarity or identity or close relationship between nonliving matter and living matter, by calling a non-living particle and a living particle a "molecular mechanism," and by further asserting that non-living matter can he resolved into "molecular mechanisms," and that living matter will also be resolved into "molecular mechanisms"? Huxley tells the Medical Congress that matter is an aggregate of "molecular mechanisms performing complicated movements of immense rapidity, and sensitively adjusting themselves (!) to every change in the surrounding world." But fancy giving to a particle of lead or iron this power of sensitively adjusting itself"! Is there any one in the world, hesides Professor Huxley, who would apply such language to non-living matter? By giving to the non-living the attributes reculiar to the living, Professor Huxley succeeds, according to his own satisfaction, in breaking down the contrast between living and non-living matter; hut will any one else believe that anything of the kind has been done

Professor Huxley must surely have formed a rather low estimate of the intelligence and critical power of the medical profession, to expect them to be convinced by him that the only difference between living matter and non-living matter is a difference of degree. He asserts that there are complicated movements in the matter of which all living and all non-living matter consists. And without one word of explanation as to what he means, he tells an audience, consisting of highly-educated men from every part of the world, that "the microcosm repeats the macrocosm, and that one chain of causation connects the nebulous original of suns and plane. tary systems with the protoplasmic foundation of life and organisation." Is thought, I would ask, to be silenced by such nebulous nonsense as this? So far from anything like a chain of causation having been shown, not two links of such supposed chain have yet been discovered. But the whole chain of causation which connects nebulous originals of suns and planets with protoplasmic foundations is of so nebulous a nature that it scarcely deserves rotice. "The microcosm repeats the macrocosm," says Professor Huxley; but the more this metaphorical utterance is thought over, the more difficult does it seem to be to get any definite meaning out of it. What particular minute living thing or

microcosm is in the least degree like the world, or like the universe? In what respects, for instance, does a monad or an amæba resemble the world? Surely it is time that people of intelligence should really consider what is gained by vague utterances like the above. We have had during the last 15 or 20 years no end of materialistic suggestions, prophecies, and promises, but little besides incoherence and inaccuracy have as yet been establised. One wonders what the representatives of medical science of all nations thought when they were assued that the microcosm repeats the maerocosm, and what meaning was attributed to these words by those wlo heard them.

He who studies any living thing in existence at any period of its life, or the smallest portion of any form of living matter, will soon be convinced that it would not be correct to say that it was like anything else in nature, except some other form of living matter; for it will be found that certain phenomena which characterised the particular living particle characterise all living particles of which we have any knowledge or experience. Further investigation will convince an inquirer that vital phenomena are not comparable with any phenomena belonging to non-living matter. They are, in fact, peculiar to Between purely rital and purely physical living matter. actions not the faintest analogy has been shown to exist. The living world is absolutely distinct from the nonliving world, and, instead of being a necessary outcome of it. is, compared with the antiquity of matter, protably a very recent addition to it-not, of course, an addition of mere transformed or modified matter and energy, but of transcendent power conferred on matter, by which both matter and its forces are controlled, regulated, and arranged according, it may be, to laws, but not the laws of inert matter.

The simple truth is that the essential phenomena of all living beings cannot be explained without recourse to some hypothesis of power totally different from any of the known forms or modes of energy. Anyone who allows his reason to be influenced by the facts of nature as at present diseovered will feel obliged to admit the existence of vital power as distinct from, and eapable of controlling, the ordinary forces of non-living matter. It has been conclusively shown that the laws of vital force or power are essentially different from those by which ordinary matter and its forces are governed. My own views on this matter, put forward during the last 20 years, have, of course, been ignored by materialistic prophets; but it is satisfactory to find that now and then the word "vital" is actually used in speaking of phenomena, not to be explained by physics and chemistry, by some scientific men who, nevertheless, support the dectrine that vital is, after all, but a form or mode of the ordinary physical action of non-living matter. The fact is, those who act thus feel the weakness of the cause they advocate, and try to hide their confusion by vagueness and obscurity of expression. Within a very few years the hypothesis of molecular machinery will probably be forgotten, and the operation of vital power as distinct from any ordinary force of matter will be generally admitted and taught.

SULPHIDE OF CALCIUM AS AN ANTISUPPURATIVE.—The Committee on Res'oratives of the Therapeutical Society of New York have reported on the use of sulphide of calcium for the purpose of preventing or diminishing suppuration. Judging from a limited number of cases, they conclude that in many suppurative affections, ranging from the small pustules of acne to extensive suppurating surfaces, an appreciable, and often a very marked, benefit is derived from the use of the calcium sulphide, suppuration which would otherwise take place being averted, or the quantity and duration of an existing discharge being lessened. At the same time its action is not uniform; and in many apparently favourable cases it will fail entirely. One tenth of a grain every two hours in acute cases will generally secure the full therapeutical action of the drug, but some patients will bear well a grain three or four times a day. Even in small doses the sulphide will occasionally produce head. ache, and the patient is usually more or less annoyed by eructation of sulphuretted hydrogen.

ADULTERATIONS OF SOME ORDINARY RUGS. AND THE MEANS OF DETECTING IEM.

By J. WOODLAND, F.L.S., &c.

Paper read before the Chemists' Assistants' Aciation.

URING the past three or four years, in samps of dr sent to me, I have come across adulterans, int. tional and otherwise, that, to the best of m nowled have not been previously mentioned; so take he opposed tunity of bringing before your notice a few nos on to adulterations, made at the time of their obstation, also a few samples of such as I have been able obtain

Whilst taking a stroll in Devorshire las Easter attention was arrested by noticing a woman of le work class, in strange attire, stopping frequently to ack cent leaves, of which she seemed very particular t select of the youngest. After making inquiries, I at ligth les that she was a botanitist, and collecting Fux feer's lea which, it afterwards turned out, was a corru on of glove. On my remarking that the leaves shead plowere principally these of the primrose plan she for expressed her sympathy for my ignorance in the patter garnished her saying by assuring me that her siness better known to herself than to meddlers; I, as i throw out a challenge, asked me to separate bleave the primrose, if she had any, which, after son delay, aecomplished, not much to her own satisfaction This! incident recalled very forcibly to my memory le fact an old friend of mine-who, as far as possible ollects own leaves and roots-had written to ask if the was danger of confounding any other leaves for pose of digitalis plant besides those of the ploughman spiken or Inula conyza, as the preparations made fro his sat were almost, if not quite, inert, for which he as at a to account. After obtaining some of his stock id examing them, I found at least 75 per cent. the le of the primrose plant, and the rest were t ed and By subsequent corres leaves of the digitalis. denee I ascertained that as he had usua seen digitalis leaves in commerce in tufts, he plumed they were most active in that form, and had me non ence to the statement in the B.P. as to the time collect On examining samples obtained from other cheists, w think, were friends of his, the same admixte was covered, evidently occasioned by mistake in crection order that detection of primrose leaves with the of talis, in a fresh or dried state, may be made, I ave de out the subjoined tables, which enumerate tl differe existing:-

### FRESH LEAVES.

2 4121. 22	***************************************	
Digitalis.  1. Apex acute. 2. Margins plane with midrib, or nearly so. 3. Petiole wirged, with veins extending down it. 4. Shape ovate lanceolate.	revolute vernat	base,

### DRIED LEAVES.

Digitalis.	Primr	
Thick, crisp, brittle.	1. Thin, flaccid, ber ble.	taula:
Show colourless reticulations	O Chore dork brot let	Tense
when held up to light.	or none, when I up	
Veinlets very prominent on under		
surface. Lateral veins confluent for some	4. Lateral veins te nat	te at
distance with midrih	rib.	-

5. Petiole winged, with veirs con- 5. Base of petiole tinued in the wings. no veins in win

The presence in commerce of so many sampl of the year's leaves of the foxglove show that the dir ions g in the Pharmacopœia regarding their collection enot considered, and the attention of pharmacist should drawn to this fact, as the unofficial first year's aves of the constant of in tufts, and these of the flowering second ar's p singly.

The sample of coehineal on the table was sen meal four years ago by a former pupil of mine en sed in service of a firm of chemists in the North of Sc and,

sence of n adulterant becomes apparent during pulverion, as, fier leating, very little difficulty ought to be eriesce n powdering the growine drug, whilst, in this a large cales separate which carrot be reduced to nder. adulteration is of vegetable origin, and consof the custa or spikelets of Briza media, or common king gri, which flourishes in English meadows, and is arkable or having its spikelets placed on very slender is, out the slightest breath of air causes them to the free. The fact that this plant does not grow in North Scotland is sufficient to account for its nongnition hough its graminaceous origin was suspected, its pres ce was remarkable, considering that no heavy der had een incorporated with it or the cochineal, as fer but he adulterant weighs only three fifths of the alt of t genuine drug.

te chargers for identification of Briza media arey, its vy apparent scaly nature, due to the glumes not c cless compressed; secondly, its shape, which is dapprehing triangular; thirdly, is scolour, which is a urplish own, alternating with white; fourthly, the nce of gles, which are very evident on the surface of rect; d, lastly, by the remains of the stalks affixed ach, to emove which would cause too much work. estalkere not long enough to be confounded with the wa of he male insects; and, again, whilst there is one sta to each spikelet, there would be two antenna

ch malensect.

enext stance is the admixture of castor in almond Almontoil, owing to its non-congealing property, is for nurrous household purposes, and must have its dhesiv haracter considerably altered by the presence ser oil lthough, as is well known, the latter is not by means quick-drying one. My attention was first n to thadulteration by noticing that a sample of oil h I had y me in a bottle minus a cork seemed less than oer samples which I had been accustomed to and als hat when dropping from the bottle the drops d with luctance, instead of easily, as they do when almondil is used. After shaking with rectified spirit aqual vume) a sensible diminution in the volume of I was parent, and suspecting the presence of castor applied e test mentioned in "Pharmacographia" under ead of Balsam Copaiba," for this oil, with the result staining the cdour of cenanthol very distinctly, and trying few reagents found that solution of ammonia ad a rest test for the presence of castor oil in that of ads. If are almond oil be shaken with half its volume uor amoniæ fort. B.P. (diluted with an equal volume der), a lite emulsion is formed, and if any separation account will be at the surface. With castor oil the n of so ion of ammonia is very slight, as it does not sify wit this reagent at all readily, but separates in iles, who on shaking sink to the bottom, and if 5 per of cas'r be present in almond oil, the separation phules the bottom after shaking with liquor ammoniæ my evicit. To apply the cenanthol test, shake the he with ctified spirit and decant the spiritucus soluwhich suld then be evaporated in a water bath, after quickle and a strong solution of caustic soda should lded, ar the whole heated in a test-tube, when the cteristicdeur of cenanthol can be easily detected d this s histication be present; but to be sure of the titis be to heat a small quantity of castor oil with dime an a strong solution of caustic soda, so as to primary vidence of the odour.

e follow g adulteration was made evident during some ments at were being made upon circhona barks, pening t eat some powdered Carthagena tark (during Drocess extraction of the alkaloids) with dilute duric ac I was surprised to notice the cdour which aded throom (faint though it was) of cinnamon that proceed from the boiling liquid, and examined tatus, & to see if any traces of cinnamon or cassia were pront, with a negative result. Reference to a Elist sho d that cinnamon bark would not be used to legate the of cinchona in powder, but that cassia might employ, and, accordingly, tests were made by means hich the esence of this impurity was established. The proceed from the decoction of Carthagena cinchona on heating a small quantity of powdered

cassia found that that was strong, hence I assumed that the cassia bark must have been almost exhausted of its oil before admixture, because if only 4 or 5 per cent. of cassia be mixed with genuine cinchona bark the cdour of the

former is very evident.

In order to detect the presence of exhausted cassia in circhona, the most reliable test appears to be the heating of the sample with bichromate of potash, and dilute sulphuric acid, when, if the preceding adulteration be present, the odour of cil of litter almonds is evolved, caused by the oxidation of the cinnamic acid left in the bark. Of course, exhausted cinnamon lark might be used as an adulteration with profit to the mixer, but in the present instance the large amount of mucilage precipitated by acetate of lead proved that the impurity was that of cassia.

The last adulteration I have to notify is that of magnolia leaves with those of cherry laurel; but these I have only seen in the dried state. Whether these leaves are confounded with each other in a fresh condition I am unable to state, although, as the plants grow somewhat alike, and the leaves are not very dissimilar, there is a probability of such an occurrence. In case of the admixture of these two kinds of leaves with each other in the dried state, the following characters will serve for distinction, though as the magnolia is a much rarer shrub than that of the cherry laurel, the probability is not very great, and the adulteration brought to my notice was evidently unintentional.

### DRIED LEAVES.

Cherry Laurel.

1. Reticulations not much marked

1. Reticulations plainly evident on

on either surface.

Loth surfaces

Margins in form of distinct lines

Margins in folled towards under-

at sides of leaf.

of thickness of leaf.

surface at the extremities. 3. Reticulations barely visible on holding up to light on account seen en

### CHINESE MEDICINAL PRODUCTS.

M EDICINES enter very largely into the economy of trade in the Flowery Land, constituting, indeed, one of its most important branches. Not only are considerable quantities of foreign drugs imported-frequently from 1 to 2 per cent. cf the entire value, but the commerce in local medicines between district and district is so enormous as to upset and astound all Western ideas.

Ginseng, or Panax, forms the chief article of import in the medicinal line, some 200 to 300 tons weight being entered at the foreign Customs alone, while an equally large quantity enters unregistered in junks clearing at the native Custom-houses. The value of this importation amounts to something very considerable, but, as the price varies so greatly, according to the quality of the root most in demand in each year, it is quite impossible to make an approximate estimate even. Thus in 1877 only 2,990 piculs,\* valued at 1,003,585 Haikwan taels, t were taken, whereas the supply in 1880 reached 3,614 piculs, but is only recorded as worth 451,737 taels, or less than one half. The Chinese ascribe the most extraordinary properties to this drug, holding it to be a certain panacea against every ill to which human nature is susceptible. In their pharmacopæia it unquestionably takes the first place, and few other medicines, whether local cr imported, are used except in combination with it in some form or other. The wild native root found in Manchuria is the most prized of all, almost fabulous sums being given to secure it. Exactly 2 piculs 95 catties were exported from Newchwang in 1880, and yet this small quantity was nominally worth H. K. Tls. 10,053, or, say, about 7l. ts per lb., all round. One specimen, weighing  $2\frac{2}{3}$  lbs., was sent to Hong Korg. It was valued at 141 Haikwan taels, equal to about a sovereign an ounce. Next in repute is Corean, first quality, then Japanese, then Corean, second quality, and then the cultivated Manchurian root. First quality Corean is worth as an article of commerce about 3l. 2s. 6d. to 31. 10s. per lb.; second quality, about one-fourth that price. Japanese in bulk from 700 to 1,500 taels per picul,

<sup>\*</sup> The picul weighs 1331 lbs. avoirdupois; 100 catties make one picul.

<sup>†</sup> The Haikwan tacl is nominally worth 6s. Ed., but varies according to the value of silver.

or about the same as best Corean, while the imitation Mancl urian fetches about 2s 5d per lb. Large quantities of crude American are also imported on account of its low price, about 180 Haikwan taels per picul, while a commoner kind known as "beard" ginseng realises a fifteenth of that

price, sometimes less.

Whether this drug does or does not possess any rare medicinal virtues is still an open question. Foreign physicians, almost without exception, are against it, saying it is of little or no use whatever, and repeated tests have fairly borne out this view. On the other hand, the Chinese, a very practical mace by the-way, still swear by its properties, prescribing it, if possible, more freely than 100 years ago. However, we have no intention to enter into this controversy, but it is open to suggest whether climatic and racial peculiarities may not have something to do with the asserted divergence in results attained.

China exports camplior (from the island of Formosa entirely); rhubarb, chiefly from Shensi and Szechwan; nutgalls, cassia lignea, and cassia oil in very considerable quantities; l.cr chief markets for these commodities being Europe, America, and Japan. In the year 1880 the respective exportation in piculs was: - Camphor, 12,327 piculs, worth 100,679 Haikwan taels; rhubarb, 6,615, valued at 232,378 taels; rutgalls 23,330, valued at 227,605 taels; eassia-buds, lignea, and twigs, 38,285 piculs, value unknown. In addition to the above there was a moderate export of eastor oil, cassia oil, and cassia-leaf oil. These figures by no means represent the entire trade, emitting all conveyed overland into Russia, or by native junks. Among other Chinese products familiar to English druggists are galangal, safflower, used extensively by the natives as a medicine, as well as for its more proper purpose, dyeing; liquorice, senna-seed, arsenie, alum (white ard green), potash, juniper herries, juniper seed oil, sandaloil, aniseed, aniseed oil, and turmeric. these are exported to foreign countries and form regular departments of trade. In addition to these, however, 28,676 piculs of local medicines were sent out to Hong Kong and elsewhere for the use of Chinese families settled abread. Rhutarb is mostly grown in Shersi, and Szechwan and Henan. The former is the most valuable, varying from 30 to 60 taels per picul, the test qualities being furnished from the district of Kanehow. Szechwan rhubarb is smaller and rougher, and possesses little of the same fragrance. The value also proves inferiority, ranging from as low as 5 taels up to only 30 taels per picul. The remarkable difference in quality is said to be attributable entirely to the dissimilarity in soil and climate between the two provinces, and not from any difference in the method of cultivation or subsequent preparation. Of this thubarb about two-thirds finds its way to England, either direct or viá Hong Kong, and the residue chiefly to Japan.

Mr. Detring, Commissioner of Customs at Tiersin, writes npon thubarb as fellows :- "Rhubarb is the dried toot of a gerus of plants, the Kheum, undoubtedly indigenous in Chira, growing wild in most of the northern and western provinces, as well as Thibet, but which is nowhere, so far as I can ascertain, brought under cultivation. The roots are dug up when from six to seven years old, just before the flowering season, which cocurs during the third or fourth moons, and again during the seventh and eighth moons, after the seed has riponed. They are then peeled and cut in lergths measuring from 4 to 5 inches, board through the middle, placed on strings, and bung up to dry. This process, however, seems to be only applied to the larger and letter roots, as the sections of thin roots that form the bulk of the cheaper grades met with here have seemingly received no further care than a thorough drying. rhularb exported from Tientsin is produced in the northwestern districts of Chihli, in Honan, Shênsi, and Karsuh. It is not improbable also that some of the best is brought from Thibet by merclants following in the wake of the Tribute and Government caravans passing to and fro. It varies greatly in quality, and bears external evidence of being the product not only of widely different tracts of country, but distinct varieties of the Rheum plant. There is reason to believe, too, that some of the inferior quality is the root of the dock-plant, Yangt 'i, which, on account of its resemblance to that of the Rheum, is honoured by the name of thubath, and sold as such. The great difference in value

would alone seem to point towards such an assum on. The following are the kest known varieties of rhub in this market :- Hsining, which stamps it as coming rom the place of that name in Kansuh, and Chungchi, vth from 15 taels upwards; the next grades, Chihuang and aihuang are worth from 3 taels, and Shanhuang only 2.5 taels per picul. The best of the former is firm in text, dry, or good weight, and, when cut, of a reddish yell colour The three last-mentioned kinds are very ta darke coloured inside, and, when chewed, deficient itaste and Mr. Detring further alludes to a ft which flavour." although old news, may be worth noting, as alwing the effect on commerce exercised by the Chinese laty. former days the rhubarb consumed in Europe we obtaine from the Chinese at Kiakhta and brought overla through Russia, where the best was selected for home u and the remainder disposed of to other European nationarder th name of "Turkey rhubarb." Russia has entire lost the prized monopoly, and the quantity now conved the overland is supposed to be quite insignificant.

Camphor, so far as China is concerned, is found clusive in the island of Formosa, and its conquest from e savag inhabiting the interior is a matter attended the gra danger and constant less of life. This, and the cance the camphor wood has to be conveyed to the port | Tams tends to keep up its price. One point in conntion wi this trade will prove of interest to Europe buye Camphor, it is well known, evaporates terribly trans never mind how carefully it may be packed. (rying o their old character for ingenuity in adulteration, e Chine have discovered a method of adding to its weig while the same time preventing waste. A plant ktin as t rattan creeper is found in the interior. When gested hot water it yields a glue which is mixed with t campb and water is then added to the tub containing i mixtu The glue adds weight to the article and stays aroratic so "manufactured," camphor will keep for p mont without loss, but naturally its quality is injured dits u fulness impaired. When mixed in mederate quitities, was first of all the case, the presence of this feign bo could only be detected by fire, but latterly, hower, fro 30 to even 40 per cent. of glue has been adde renden the camphor unfit for use and in some case absolute

unsaleable.

Regarding local medicines, suffice it to say the name legion. In the Ningpo trade report for the yea 880 the appear the names of no less than 109 different so, all mo or less consequential articles of commerce. Ye this de not nearly exhaust the list : the returns from W u certi to 32 kinds, very few of which can be found in e long Ningpo list. Newchwarg, again, deals in 31 pedicing mostly of a different character, while Hankow mishes tally rivalling that of the first named port. Wrever turn the story is much the same; indeed, to que a writ on Chinese medicines, "the varieties and quany in u scem surprising to the uninitiated, hut probably leof it illusory with so practical a people as the Chinese Naturally, it is impossible to give an account all the medicines, but we may mention a few of thehief, serving to some future occasion a description of km. Fir in importance is Paichu (Atraclylodes nova spec of whi there are severals kinds and qualities, the best nown ) üchu, teing worth about 40 taels per picul. Aild kin however (Yehraichu), is supposed to possess expordinal me dicinal properties, and demands fancy prices mits cessive scarceness. Paichu is said to be a mc effectit stimulant and tonic remedy, and, in combination ith other medicines, is prescribed for ir numerable mplaint.

Maitung (Ophiopogen Japonicus) is anothe favorily complete and in the state of the state o remedy, and is used as a tonic and mild stimule, and cases of vomiting, spitting of bleed, and lung dise s. Peim or Tupei (Venlaria liliacea), worth 4 taels, and ahi stqualit frem Halk w. I nown as Ch'uanpei (Uvuloria gndiffera worth 100 to 140 taels the picul, are used in fev, cough dysentery, hæmorrhage, and calculus, and admistered t women after childbirth as a stimulant tothemamn yglands also in eye discases, and as an ointment for cuta jus sore Ameng the other fashionable medicines are Yij (Corne afficinalis) 10 taels; Yüan'hu, or Yen'huso orydalicanbigua) 5 to 8 taels; used as a blood purific nd as tremedy in female complaints; Yüansheng, llac gibseng aels; at ic prescribed in cases of fever, diseases of the ut, liver nd kidneys. Yüjow, alluded to above, is one the best nown medicines, and is prescribed for many aplaints, ach as fevers, disorders of the sexual parts, ms, and supposed to give relief even in cases of fness. ench'i and Matou-ling are also held in high ute, the rmer by the Chinese soldiers in Formosa, and latter at remedy for pulmonary complaints. Neither these micines are mentioned in Dr. Porter Smith's k, and the botanical names have not yet been fixed. uderme oned is a list of other leading drugs, with some

f particars :angkuei Iralia edulis), 12 to 23 taels. Debility and ale disor rs.

langshen Campanula). 7 to 20 taels. Tonic.

beogti (Amannia Chinensis), 2 to 24 taels. Alterative blood p fier.

"uchung Vuonymus Japonicus), 50 to 100 taels. Decoc-

Tonica physical debility.

Juangchi Sophora tomentosa), 10 to 40 taels. Tonic. ohua ( thamus tinetorious), 18 taels. Safflower soms.

b'uanfu conitum rariegatum), 6 to 16 taels. Used in ll quanties as a stimulant.

lusishan Dioscorea sativa), 7 to 20 taels. Stimulant and

atou (Crin tiglium), 6 taels. In China the seeds are d as a dra c purgative in preference to the expressed oil.

CH'UANT (Aconitum variegatum) has several names in nese, accoling to its age; thus that which is two years is called Futzn, that which is three Loufu, and that ch is four ienhsiung. The value is, however, apparently affected these distinctions, and is the same for all aels a pil. It is a dark-brown, turnip-shaped tuber, erally of inches in length and 6 inches in circum-nce, and then cut open shows an ashy-grey, greasy erior, havg on the surface of the fracture a distinct k in the appe of a somewhat irregular star. The roots prepared r market by being simply salted and dried. en cut in longitudinal strips or slices it assumes the reased val of 16 taels a picul. Medicinally this variety conite is autiously employed as a stimulant, but it is sidered haly poisonous if administered in any but Il quantits.

CHUANTEG (Ophiopogon Japonicus) .- These are the Il semi-on ue tubers of a liliaceous plant found in the thing disct of Szechwan, and also in Honan and asi. The vary from  $\frac{1}{2}$  to  $1\frac{1}{2}$  inch in length, are normal in large and soft to the touch, and have a somesweet, sipid taste, but little or no fragrance. The quality worth 19 taels, and the lowest 12 taels per il. The ug is in general use as a refrigerant and ic, but car as to be taken in prescribing it, as an overa is said to roduce a stupeffing and lowering effect on system. Is not usually taken alone, but is mixed with er drugs, e ecially Huaishan (Dioscorea sativa).

ltogether er 200 distinct medicines are known in le, and if e different varieties of cach are counted as arale med nes, the number dealt in is simply fabulous. ny unknow here are believed to possess intrinsically nable med nal properties, and the comparatively long and extra linary prelificress of the Chinese race goes to bear ou his theory. Now that so many European tors are so ling out in China, we shall probably learn te about the extensive pharmacopæia, and possibly inde a few of heir wonderful panaceas in our own.

THE PHAR CIE CENTRALE OF FRANCE. The annual out of the pove company shows that in 1881 the total the company amounted to 9,164,507f., of ich 6,196,4 were those of the Paris house, the balance ong the tranctions of the branch establishments. The the Paris house reached 1,051,892f., the Thing expects were 686,027f., leaving a net profit of the company amounted 504,246f. Generoix, the director of the Pharmacie canical stat that the work in the Paris house is so ganised thaif the post should fail any morning, the aff would be completely idle.

### BRITISH PHARMACEUTICAL CONFERENCE.

MEETING of the Executive Committee was held at Bloomsbury Square on June 21. A grant of 101. to Mr. A. H. Jackson, of Strangeways, to purchase material for an investigation on the oils of cinnamon and cassia, was confirmed. Mr. Chipperfield (Southampton) reported that excellent rooms for the Conference had been secured at the Watts Memorial Hall. Twenty-five beds had been secured at Radley's Hotel. He was thanked for his services, and requested to secure, if possible, more beds at the same hotel.

### ORIENTAL NOTES.

### BY DR. XAVIER LANDERER.

POPULAR CURES FOR CHRONIC INTERMITTENT FEVER. -Quinine is regarded by the Orientals as an heroic medicine, a gift of God. Its costliness is the only obstacle to its use, and often it cannot be bought by the poorer classes. For this reason many thousand of them suffer from milt cake, or splenitis chronica, which is followed by liver diseases and dropsy. One remarkable remedy that I have given to poor villagers is a strong saturated decoction of the leaves and unripe fruit of the olives with the Thermochorton (the "fever plant "of Hippecrates, the modern Erythrea centaurea), boiled in an iron kettle to ensure its containing iron. The latter plant is collected by the herbalists and sold in bundles in the streets, with the cry "Thermochorton." A bitter, ferruginous extract like this, made from the leaves and fruit of the olives, will be inserted in the next Greek Pharmacopoia.

CIVET AND THE CIVET CAT .- This note has for its theme a peculiarly Oriental subject. Civet, Zibeth, Zabed, or Zibad is produced rarely in Arabia, more often in Abyssinia, which is the habitat of these wild cats. The Viverra Zibetha is taken in snares, kept in an iron cage, and fed with the flesh or viscera of goats. When it becomes restless and excited it is tied up with cords, and the civet is extracted by means of a small spoon from a gland situated close behind the umbilicus. The industry is very profitable. A civet cat costs from 2,000 to 3,000 piastres; a fine skin, made into a handsome fur, costs 200 to 500 piastres.

For Oriental markets the civet is placed in small goathorns or ox-horus. In the Misir, or Egyptian bazaar, at Con-

stantinople it is sold in small tin boxes.

Orientals are devoted to civet. The men smear with it their turbans, called "sariki." The women persume with it their clothes and Ismarki veils. It is elegant and hightoned to smell of civet. This substance is the best thing used in the East for preserving the very costly shawls and garments from the attacks of moths. Chests of cedar and cypress wood are used for the same purpose.

Civet is used by the native physicians in different medicines, especially in the highly-prized Iladsch, which is given for nervous diseases, hysteria, and the like. In Arabia civet

is sometimes sold under the name of "Moskos."

CITRON ORANGES.—Large quantities of citron-oranges have been received from Jaffa and its neighbourhood. They are produced from orange-sets grafted on citron-stocks. They are much larger than oranges, and sell for 10 to 20 leptas each. The oil obtained from the peel by distillation or by the Sicilian method of expression differs from both orange and citron oil.

FISHING IN GREECE.—While the seas around Greece and its islands naturally abound with fish, the Greek fishermen are quite unacquainted with cocculus indicus. The only fish-poison they know is one of the Euphorbia, milk weed, or wolf's milk, called by them "Phlomos." This plant, tied in bundles, is placed in confined parts of the sea, and the fish are soon poisoned and can be captured by hand. Such fish, called "phlomiasmena psaria," rapidly putrefy, and are then dangerous to whoever eats them. In the Greek statutebook are Draconian laws against this practice, imposing imprisonment and fines of money. Some years ago, on a certain island, Professor Landerer himself tried the experiment of fish-poisoning with cocculus indicus. It was successful beyond expectation, for a young seal, Phoca vitellina, was captured. It had eaten so many poisoned fish that it had become intoxicated; cocculus berries were found in its stomach.

### GUM EUPHORBIUM.

IT will be remembered that a short time ago public attention was called to the use of gum euphorbium as a preventive of the fouling of ships' bottoms. Inquiries as to the possible supply have apparently been addressed to the Consu's in Morocco, for the last part of the Consular Reports contain notes on this subject from Consul Payton, at Mogador, and Vice Consul Hunot, at

Saffi. Consul Payton says :-

This gum, called in Arabic "ferbioon," is an exudation from a bushy plant or shrub of the Spurge family (probably Euphorbium resiniferum or Euphorbium officinarum), which grows very abundantly in the district of Entifa for Inteefa, at the foot of the Atlas mountains, in the north-east end of the province of Sragna], especially near the Kasbah or village of Kla (Alcala in some maps), some two days' journey to the north-east of the cityof Morocco. The plant, which is about 3 feet in height, grows wild without cultivation over a very large area of open country, and the gum is principally obtained in late summer and early autumn-say July to September inclusive. gathered in large quantities by poor people, and taken by them to the city of Morocco for sale whenever it is known that there is any demand for it; from thence it is brought to the ports on camels at a low rate of transport. Dr. Leared, in his work on "Morocco and the Moors' '(London: Sempson Low & Co., 1876), seems to think that this gum might be found in the neighbourhood of Mogador, but on this point I hold that his information was erroneous; some plants of the same or an allied genus may be found, but not the gum. It comes on the market in Morocco and the coast towns in the form of small irregular shaped nodules of hard opaque gum, of a dirty white or yellowish grey colour, and roundish exterior, with a considerable admixture of vegetable particles, apparently twigs and seedpods of the producing plant. It has a somewhat strong and pungent smell, the acrid dust arising from it by friction or agitation affecting the eyes and nose, so that the drivers of caravans bringing this gum and persons employed in packing it are obliged to cover their faces.

As far as I can ascertain, the falling off in the export of late years (said export being from the ports of Mogador, Saffi, Mazagan, and, I am told, sometimes Dar-al-Baida) would seem to be attributable to the falling off in the demand, probably owing to this gum having fallen out of

repute in Europe for pharmaccutical purposes.

Although, owing to the causes above mentioned, there has been little or no export of Eupharbium gum from Mogador of late years, a demand has evidently lately been made known in the interior, for there have been two considerable shipments from Mogador within the past month, viz. 72 serons, weighing about 150 cwt., per steamship Risca, on September 10, and 36 serons, weighing about 75 cwt., per steamship Greenwood, on October 3, making over 11 tons of this gum, all for London. It is bought at about 10s. a cwt. in the city of Morocco, and transport on camels is cheap. Vice Consul Hunot adds:—I have good authority for

Vice Consul Hunot adds:—I have good authority for opining that the trees produce small quantities annually; but in years when rain has been plentiful at the commencement of the season, followed by excessive summer heat, the yield is large, which generally happens every third or fourth year. The gum produced is collected from the trees in the

months of August, September, and October.

I have seen the same kind of tree, or a similar one, growing along; the coast near the port of Agadir, and even in the cliffs near this town of Saffi; but the plant that grows in the interior in hot places is the one which produces the gum (a specimen of which I had the honour of obtaining for Sir Joseph Hooker). Of late years this gum, has been considered of so little value that it has been entirely neglected as being an unremunerative article, both for the natives to collect and for the merchants to export. First of all there is the cost of collecting in districts where the roads are not always safe, then the carriage to the city of Morocco, and thence to the seaport town. Then it has to be picked and sorted, causing considerable loss in the weight, afterwards there is the cost of package and numerous charges, including an export duty of 2s. 4d. per cwt. Added to the above, the sale of the article in England was always very

dull, and it was so uncertain when a consignme could be realised, that the article became quite neglect. Up to October 15 about 30 camel-loads have been sold s year it the eity of Moroeco, which, I hear, have alread been er ported from Mogador.

## Scientific Notes:

On Chemistry, Pharmacy, Botany, Materia Mica, & Original, Selected, and Translated.

FERRUM OXYDATUM SACCHARATUM SOIBILE,

THE following formula by Dr. Brunnengräber publish in the Archiv der Pharmacie:-Nine parts o powder sugar are dissolved in 9 parts of water, and to is 30 pa of solution of chloride of iron (sp. gr. 1 280-132=10) cent. Fe) are added, then gradually, and we const stirring, a cold solution of 24 parts of sodium rbonate 48 parts of water. After the disengagement of e carbo acid, 24 parts of soda-lye (sp. gr. 1-159 1-163 = per of NaOH) are added, and the mixture is set ade until becomes clear. After the addition of 9 part of sodi bicarbonate, the mixture is diluted with 600 pa of boil water. The precipitate is removed, and 400 pes of w are twice poured over it. It is then diligently ashed filter with hot water until only traces of chlor are fo in the strained fluid. It is then pressed an ixed ; 50 parts of sugar, dried over a steam-bath, ar the we made up with sugar to 100 parts yields 3 perent, of in the mixture.

### DETECTION OF SALICYLIC ACID IN LK.

THE Journ, de Pharm. d'Anrers (June, 18) says following is the process adopted in the municipal bora of Paris for the detection of salicylic acid in lik:-100 c.c. water at about 60° C., and the same quitity of milk to be tested; add 8 drops of acetic acid d as a solution of mercuric nitrate. This last is added precipi the albumeno d principle, lacto proteine, which could of wise form an emulsion with the ether afterards to added.] Shake and filter. The whey thus tained tains the salicylic acid in solution. Pour it in tube wi glass tap, add 50 centimetres ether, and shake iskly. it stand until the ether has perfectly separat Drag the aqueous portion and pour the ethereal soluin on al watch glass. Let it evaporate spontaneously. Dissolw residue in a few drops of water; add a dr or two 1 per cent. solution of perchloride of iron. A let cole tion indicates the presence of salicylic acid.

BENZOIC ACID AND THE POTASSIUM PERMAN(NATE I IN face of the discussions raised by Dr. C. Sacht's pon a method of testing benzoic acid by means potas, potanganate (see this Journal, 1881, page ), and page 86), Ed. Schaer, of the Zurich Polytec (c. has sidered it advisable to have the matter investiged by our bis sub-

than pharmacists, and this has been done und his sup tendence in the laboratory of the Polytec c, and results printed in the Archiv der Pharmacie, e.e., 1882

1. Benzoic acid obtained by sublimation f in gum

zoin bleaches both acid and alkaline solutions f potas permanganate very considerably and very rabenzoic acid from any other source either fa all, or but very slightly, and in proportion to present. Alkaline solutions of other than Pharm.) benzoic acid assume a green tinge.

2. Benzoic acid prepared by extracting gun lime behaves like the artificial acids. When raw material contains cinammic acid the similar to that exhibited by the true section the gum, when extracted with lime, also which behaves somewhat like that sublime gum benzoin.

3. Benzoic acid prepared by extraction of e gum lime, and then sublimed, does not exert the paracter reaction of that sublimed direct from the gum

Benzoi cids not prepared according to the directions he Germ Prarmacoj ceia. when mixed with a certain ntity of m benzoin and sublimed, do bleach potassium mangapa to some extent, but even when as much as er cent. gum has been employed the reaction is much ker than the case of the official acid.

Cinamr: acid alone reacts qualitatively almost exy like th sublimed gum benzoic acid, both in acid and line solons of the permanganate, and when mixed such k is of benzoic acid which themselves have no t on the rmanganate, as, for instance, toluol benzoic

, imparts is property to them.

A berze acid which of itself behaves indifferently ards pota um permanganate (Siam gum acid prepared igestion th lime), even when mixed with 10 per cent. nammic id, does not instantaneously bleach the perganate, t reaction requiring some minntes for its peron. It i ust this instantaneous bleaching action which acterises refectly pure benzoic acid sublimed from gum

### CTION ( QUININE HYDROCHLORATE WITH SILVER NITRATE.

Verlius as observed a reaction of quinine hydroate with silver nitrate from which it appears that chloridet the moment of its formation is capable of ining will quinine hydrochlorate to ferm a double salt ar to the onble salts of platinum chloride.

10 c.c. o 1 per cent, solution of silver nitrate are 1 to 50 d, of a solution of quinine hydrochlorate of me streith, the latter being constantly stirred during peration, precipitate of silver chloride ensues, for formed it once dissolved by the solution of quinine chlorate.

more conntrated solutions this reaction is not ob-I, the usu precipitate of silver chloride being formed. en in wes solutions, if silver chloride is once produced only with lifficulty and imperfectly dissolved even in cess of th quinine hydrochlorate solution. Morphium chlorate es not react similarly.

### RELATI OF STARCH AND ATROPINE IN BELLA-DONNA ROOT. †

presence starch in belladonna roots was for some considere a characteristic distinction of the latter bardana ots, which contain none. The fallacy of istinction as, however, of late become apparent, since been shon that the percentage of starch in bellaroots no only varies, but that they often contain no

s variabily of the proportion of starch suggested to oleck the sirability of ascertaining if there was any on betwee the percentage of starch and the percentatropine nd at his instigation his former pupil, Fr. al, Apothery to the Pharmaceutical School at Breslau, restigate the matter, and has found that the roots it in starcare also those richest in atropine.

### DETERMATION OF FUSEL OIL IN SPIRIT.

aper in the Berichte des deutschen chemischen Gesell-June 26, 882, L. Marquardt describes a method of mining fel oil in spirit both qualitatively and tatively, sich, the author states, yields excellent This is f great value, since up to the present no de quantit ve method has been known.

method c sists essentially in taking up the fusel oil chloroforn oxidising the former to valerianic acid, neutralisis this with barium carbonate, and dening the count of baryta which has entered into

ination as rium valerate.

at exact rests may be obtained is shown by the fact in a sample f spirit prepared for the purpose, and conto of ordinary fusel oil, 1.02 g. of amyl of per ut. of ordinary finser off, 105 g. of the spirit were of analysis:—150 g. of the spirit were

shaken for 1 hour with 150 c.c. of water, to which 50 c.c. statum again shaken up with 50 c.c. of chloroform, this operation being again repeated. The several portions of chloroform were then collected and likewise shaken for hour with an equal volume of water, this operation being then twice repeated, and the aqueous stratum cach time previously removed. The chloroform, containing all the fisel oil but no alcohol, was then treated with a solution of 5 g. of potassium bichromate dissolved in 30 g. of water, to which 2 g. of snlphuric acid had been added, and the whole placed in a strong well-corked bottle and heated therein in a water-bath to 85° C, for about six hours under constant agitation. (It is advisable to avoid the employment of more than the above-mentioned respective quantities of snlphnric acid and potassium bichromate.) The contents of the bottle were then brought into a glass retort, the bottle rinsed with water, and this added to the contents in the retort. The whole was distilled down to about 20 c.c., the residue treated with 80 c.c. of water, and likewise distilled down to 5 c.c.

The distillate, which consists of two layers, was mixed with barium carbonate and digested with this for about half-an-hour, using an inverted Liebig's condenser. The chloroform was then distilled off, the residue evaporated down to 5 c.c. over a water bath, the excess of barium carbonate filtered off, the latter washed with a very small quantity of water, and the filtrate evaporated to dryness over a water-bath. The residue, which amounted to 0.396 g., was dissolved in water, to which a conple of drops of nitric acid had been added, and the whole made up to 100 c.c. In this solution barium chloride and baryta were respectively determined. The result was 40 07 per cent of baryta in the total quantity of barium salt formed, and taking this to be barinm valerate represents 102 g. of amyl alcohol in 1,000 g. of spirit, or 0.102 per cent.

The qualitative proof of the presence of fusel oil is, of

course, the formation of valerianic acid.

### DIALYSIS.\*

M. WÖLLMER finds that vegetable parchment is not so well snited for a dialyser as real parchment, and that even the least porous kinds of the former allow a certain amount of colloid substances to pass through. In the course of his experiments he observed that, while a number of extractive substances and even gum arabic diffused through a membrane of vegetable parchment, true parchment admitted the diffusion of crystalloids only.

### AMERICAN MUSK.

This product is likely to come into demand. The Druggists' Circular quotes the following from Mr. R. S. Christiani, a well-known anthority on perfumery:- "American musk is obtained from the mnsk rat (Fiber zebithicus), native of this country, and found in nearly all parts of it, frequenting the streams and marshes, and having habits similar to the beaver.

"The musky secretion is found in two sacs, situated between the anns and the genital organs, and is emitted by the animal when excited. These animals are easily trapped and killed for their skins, which are shipped in large quantities to Europe at this season of the year. The fnr, though looking coarse, from the longer hairs, is very soft and fine beneath, and is dressed and coloured and largely used for the cheaper furs.

"To the manufacturer of toilet soaps the American musk is almost invaluable, being nearly as good and as strong as the real, the reaction of the alkali necessary to all soap having a softening and modifying property upon the strong odour, which is also improved by the addition of the usual spice

oils and other perfuming substances.

"I have for many years used this substance in soaps, sachet powders, &c., but do not recommend it for essences, though much is used in the cheaper kinds. In using it in soaps I have found that time is required to improve the odour, and when a cake of soap so perfnmed has been kept for a few

rchie der Phar cie, May, 1882. † Archiv der Pharmacie, June, 1882.

months, it would require a very skilful perfumer indeed to distinguish the odour from that of the best tonquin musk.'

PURIFICATION OF SULPHURIC ACID BY CRYSTALLISATION.

In the Zeitschrift für analytische Chemie, Heft 2, 1882, Tjaden Moddermann remarks that he has for some time been accustomed to prepare pure sulphuric acid by recrystallisation of the hydrate H<sub>2</sub>SO<sub>4</sub>H<sub>2</sub>O, and finds this seldom-adopted method of purification to be really an excellent one. author has experimented in this way upon acids containing considerable quantities of lead and arsenious and nitric acids, &c., and by protracted recrystallisation has in all cases obtained a pure acid from them.

The ac'd is mixed with The method is very simple. sufficient water, and, in bottles two-thirds full, exposed to the cold in the open air on a frosty night. If the mixture has been properly made it is generally frozen throughout the next morning. The chief thing, then, is to carefully separate the crystals from the mother liquor, and for this purpose the author employs a centrifugal apparatus so constructed that the acid only comes in contact with glass. The separation is very easily effected, and, except in cases where an acid is strongly contaminated with the different oxides of nitrogen, one recrystallisation is generally sufficient.

### FRAUDULENT SUBSTITUTE FOR GLYCERINE.

In the Union Médicale et Scientifique du Nord-Est, for March, 1882, Prof. Lajoux points out a fraudulent substitute for glycerine which has been introduced into the French market. The ordinary physical characters of the liquid closely resemble a fine specimem of glycerine; it, however, has a bitter taste, due to an impure sulphate of magnesium, and contains glucose. Quantitative analysis showed that the preparation was simply a saturated solution of sulphate of magnesium, with 160 grammes of glucose to the litre, to disguise the taste of the salt .- Drug Circu'ar.

### ARTIFICIAL INDIGO.\*

WE gather from the Pharmaceutische Zeitung, July 8, 1882, that Professor Baeyer is continually improving his methods of preparing indigo artificially, and the newest improve-ments in this direction which have been patented by the Baden Anilin and Soda Works are as follows:

### A. Preparation of Indogenic Acid Ether.

1. The ethyl ether of ortho-nitro-phenyl-propiolic acid is converted by reduction with ammonium sulphydrate into the ether of the so-called indogenic acid, which crystallises in colourless prisms and melts at 120° C

2. Ortho-nitro-phenyl-propiolic acid is converted by sulphuric acid at the ordinary temperature into isatogenic acid ether, which is isomeric with indogenic acid ether-a substance crystallising in yellow needles and melting at 115° C. This is converted by means of certain acid reducing agents into indogenic acid ether.

B. Conversion of Indogenic Acid Ether into Indogenic Acid and Indogen, and the Formation of Indiao Blue.

Indogenic acid ether, when saponified with alkalies, yields indogenic acid, melting at 122° C. This, when heated, gives off carbonic acid, and passes over into indogen.

 $C_sH_sNOCO_2H = C_sH7NO + CO_2$ 

Indegenic acid and indegen, treated with dilute acids or alkalies, or oxidised by the air or otherwise, yield indigo blue.

### TEST FOR COTTON-SEED OIL.

SIGNOR MARCO ZECCHINI gives in Les Mondes an easy method for detecting cotton oil, with which olive oil is frequently adulterated. The suspected oil is treated with pure nitric acid, specific gravity 140. Ten cubic centimetres of acid are mixed with five of oil in a test-tube closed by an indiarubber stopper, and shaken briskly for a few moments. The tube is placed in an upright position and allowed to rest for five minutes. The oil collects on the surface; if it be pure olive oil it takes an ash grey tint with a pale yellow reflection; if cotton oil it assumes immediately a golden yellow which soon becomes a deep coffee brown.



THE MEANING FOURTEEN DAY PROM

CITY OF LONDON COURT, June 1 (Before Mr. Gibbons, presiding for Mr. Commoner I

WEBB, COLES & CO. V. MEDLAN

THIS was an action brought by Messrs. Webb oles & colonial merchants, of 14 Mincing Lane, again the dant, who was described in the proceedings a che agent, of 31 Darvelle Road, Stoke Newington, recover sum of 21, 16s, 5d. in respect of the purchase d re-s a quantity of tartaric acid.

Mr. Johnston, solicitor, who appeared on ti part of plaintiffs, said the goods were purchased by e dete on March 27 for the sum of 467. 1s 1d., on t defer instructions, to be paid for on a 14 days prom, and a were not accepted within that time his client accord the custom of the trade, were entitled to sell, themselves, and, in the event of any loss, to (mita the defendant. They, however, for his con nience them until April 26, when they re-sold a l 21. 16s. 5d, the sum now claimed.

The defendant, in answer to his Honour, s: his d was that the goods were not delivered in tit the plaintiffs saying he would take a cask o artari at a certain agreed price, "ca h in 14 d , deli once." The same night the plaintiffs wrote thim, se him the contrac', and stating that they had ven it tions for delivery of the goods to his carman ut the ask him to send them at once 45l.

His Honour (to Mr. Johnston): Your con ct is P 14 days. How can you ask for the money at ice?

Mr. Johnston: True, the contract entereonto wa the defendant was to have 14 days to pay h in; he wanted delivery at once, he must send th noney his 14 days.

His Honour: Indeed, according to your putract entitled to the goods at once, and has 14 ds in w pay his money.

Mr. Johnston: No; my clien's contenti is the goods were bought at a 14 days prompt, wheneas we must keep them for him during the lays re deliver to his order; but, according to the ustom trade, we are entitled to ask him to pay the whole part of the purchase money we choose before deli-

The Defendant: On the Friday after 2 pure called at the plaintiffs' warehouse, and asked le reast they had not sent the acid, telling them the sam that they need not deliver as my customer ad gir

notice that they would not accept after that if.
Mr. Johnston: Yes, and our answer wa bat we give credit.

The Defendant: But I went to Mess Puddy Mincing Lane, whom I told what I wan ed. hey del the next day on a 14 days' prompt, and thei is my [producing it] for payment at the expiration of that

His Honour: It is common knowledge tha 4 days means 14 days to pay in.

Mr. Johnston: I hope your Honour will : w me

evidence that that is not the custom of the de. His Honour: Indeed, in the face of this of the odmit admit no evidence to tell me what construc n I sha upon it. It speaks for itself. By that instrito sell him goods at a 14 days prompt, deliv at 000

Mr. Johnston: True, he bought for 14 72, but requires delivery at once he must either pay le accol that portion of it which the vendor require efore h

<sup>\*</sup> See this Journal, 1881, p. 262, and 1882, p. 84.

mand at lute delivery. In this instance the account was 1.9a. 1d and my clients asked him for 45l., which was owing al per cent., which was an arrangement between m and eir Mr. Burgess before they felt inclined to

liver the oods.

lis Honr: For the purposes of the day I shall hold that mpt in t days means payment in 14 days, and that, ording your contract, the defendant was entitled to ivery the noment that note was signed. In it you have o deposit stipulated, and in the event of your having a ht, as y allege now, to claim the 45l. before you ivered t goods, you should have stated it on the conat-note.

Ir. John on: Do you hold, as a matter of law, that goods ght at days prompt means that the purchaser is

itled to livery at once?

lis Hone: I hold that "prompt 14 days" means pay-

it at the ad of 14 days.

Ir. John n: Why, you are holding that he is entitled to at 14 de and delivery at once.

is Hono: Yes, under this contract.

lr. John n: I never heard of such a thing in my life. is llono: If you choose to give me 14 days' credit you

r. John n: Your Honour will hear my evidence as to

is Hond: Oh, yes; I will hear it.

r. Burge was then called and said he made the cont with the defendant.

r. Johnsa: What was said about it?

itness: he defendant simply bought the cask of acid at prompt, ad was rather dissatisfied at giving us the

. Johnsh: What was said about payment?

itness: lat the goods were to be delivered on payment

s Honor What do you call 14 days prompt?

iness: urteen days' prompt is that you have the ty of tang that time before asking for delivery, and wask follelivery before the expiration of that period payments requested of you, you are supposed to pay. are the ast India Company's terms, "cash against ery-note

Johnst: Will your Honour give me an opportunity

ing the se before a jury?

3 Honou No; I will not send the case before a jury cide whe er I am right or wrong on the construction

agreem t.

.Johnso But on the question of the custom of the ; becau I must confess I am surprised at your ur's decion, and I would like to have an opportunity tting skild evidence in the box that my clients' conon as to he custom of the trade with regard to the ttant poi of the prompt is the right one.

Honou No; I do not entertain any doubt in the r. If y sell goods to be delivered at once, you are

by you ontract to deliver them at once.

Burgese Then if a man comes to us and buys on the ays prort, and he wants his goods delivered "at -which we understand to be any time within the 14 that he ry pay for them—that means that he can call us to diver, immediately after the receipt of the act-note, ithout paying any money at all?

Honour Certainly. If you agree in a contract note

liver at o e you are bound to deliver.

Burgess Then we might sell to everyone who came a good nee, but who in the result might prove to be iless.

Igment f the defendant.

e case w again heard in the City of London Court, e Mr. Comissioner Kerr, on an application by Mr. son, solicor, on behalf of the plaintiffs, for a new on the grand that the Deputy Judge (Mr. Gibbons) rejected (dence of the meaning of the words "14 prompt" respect of the purchase of a cask of tartaric The lead solicitor contended that the construction pon the wds by the Deputy Judge was nonsensical, hat if it re good law the business of Mincing Lane, gard to (micals and other products, could not be

The Commissioner: I have nothing to do with Mincing Lane or any other lane. What I have to do in granting or refusing your application is to see whether the Deputy Judge was wrong in refusing to receive evidence of the meaning of the words "14 days prompt." I may tell you that I think he was right in what he did. It depends upon the construction to be placed upon the written contract itself, and at present I am inclined to think the deputy was right in the way in which he has construed it. However, I will consult Mr. Gibbons before deciding.

Mr. Johnson: Then I am not astonished at any decisions

in courts of law.

The Commissioner: Nor am I at any statement made by

solicitors. (Laughter.)

At a subsequent sitting of the Court his Honour stated that he had consulted his deputy, who said he had not rejected any evidence, but decided the case on the proper legal construction of the terms of the contract note. He was of opinion that the deputy was right in point of law, and therefore the application would be refused.

Mr. Johnson: Can I not have a trial before a jury

The Commissioner: What would be the use of that if I direct them, as I have now done, on the pure point of law? (Laughter.)

Mr. Johnson: Then I will not press the matter further.

Application refused.

### RAILWAY RESPONSIBILITIES.

FRANK & OTHERS V. THE GREAT EASTERN RAILWAY CO.

This was an action tried before the Recorder (Sir Thomas Chambers, Q.C, M.P.) and a common jury, in the Lord-Mayor's Court, on the 10th instant, when the plaintiffs, Messrs. Julius Frank & Ohlman, saccharine and hop mer-chants and pepper agents, of St. Thomas's Street, Borough, sued the defendant company to recover the sum of 45l. for damage done in transit to a quantity of glucose, consigned by them (the plaintiffs), by the defendants' line, to Messrs. Keyes and Co., manufacturing chemists, of West Bromwich.

Mr. Israel Davis was counsel for the plaintiffs, Mr.

Lush-Wilson for the defendants.

The plaintiffs' case was that they imported glucose from the Continent by the King's Lynn Steamship Company's vessels, and that they were in the habit of allowing it to remain at the wharf of that company until they (the plaintiffs) required it to be delivered to their customers, and then their various orders were forwarded by the Great Eastern Railway Company's rails. In the present instance 400 bags of glucose had been landed on the wharf from one of the King's Lynn Steamship Company's ships, and on the 15th of March last 100 of them were sent by rail from the wharf in one of the defendants' trucks to West Bromwich, where they were received by Messrs. Keyes and Co.'s servan's, and carted by them in their (Messrs. Keyes') carts to their premises. On their arrival there, however, the last twenty bags were found to be infected with a smell as of fish-oil, and upon Mr. Keyes' (sen.) attention being ealled to them, he refused to accept delivery of the bulk, the whole being more or less affected, and sent for the railway officials at the West Bromwich Station to come and see them. They admitted that the goods were damaged, and notice was at once sent to the plaintiffs by them (Messrs. Keyes & Co.) that they repudiated the contract, although they did not object to the goods remaining on their premises until the question of liability was arranged, as the damage might be greater if the goods were returned to the wharf and had to lie about there for any length of time.

Evidence for the plaintiffs was called to prove that glucose would be worthless for brewing or confectionery purposes, for which it was principally used, if tainted with fish-oil or other foreign matter of that kind, and would be of little value for re-manufacture. The goods in the present instance were of the total value of 80l.; but the plaintiffs only sought to recover 45l. for that part which was so damaged as to be worthless.

For the defence, Mr. Lush-Wilson contended, first, there was no privity of contract between the plaintiffs and the defendant company as common carriers, and that Messrs. Keyes, the consignees, were the persons who should sue the Great Eastern Railway Company if the company were liable.

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His Lordship, however, refused to withdraw the question from the jury.

Evidence was then adduced on behalf of the company that the truck in which the glucose was conveyed from King's Lynn Dock to West Bromwich was cleared of animal's hoofcuttings by the servants of the King's Lynn Steamship Company, and re-loaded with the glucose by them.

Mr. Lush-Wilson upon that further contended that if the plaintiffs were entitled to recover damages, their remedy was against the King's Lynn Steamship Company, whose servants had been guilty of negligence, and had caused the damage, if anyone had.

His Lordship left the question to the jury, who returned

a verdict for the plaintiffs for the amount claimed.

#### LIEBIG'S EXTRACT OF MEAT.

Ox June 23 Mr. Justice Chitty granted an injunction restraining a Mr. David Pearson from selling goods of his manufacture put up in such a way as to lead the public to believe that the goods were manufactured by the Liebig Company (the plaintiffs). The defendant had traded as the Liebig's Canadian Extract of Beef Company, and the plaintiffs admitted that the name "Liebig's Extract of Meat," and the right to manufacture it were common; but in view of the evidence the Court concluded that the defendant had fraudulently sought to induce purchasers to believe that they were buying extract of meat of the plaintiffs' manufacture.

#### THE SALE OF A BUSINESS.

On June 26, at the Clerkenwell County Court, before Judge Whitbread, the case of Roper v. Stovell was heard.

The plaintiff, Mr. Giles Symonds Roper, formerly practised as a surgeon at 365 City Road, but now lived at He also owned the lease of premises at 259 Goswell Road, his original landlords being the Brewers' Company. Mr. Gurdon Berdoe, chemists' agent, had acted as agent for him to let these Goswell Road premises for him as a chemist's shop, and in December, 1880, he had commenced negotiations with the defendant. After some failure to come to terms, it had been at last agreed that defendant was to pay 80%, for the lease, and did actually pay a deposit of 271. Defendant was also to pay the cost of repairs. Plaintiff had had the repairs done at a cost of 381., and he now sued for this amount and for the balance of the purchase-money. The defendant made a counter claim of 2001. for breach of contract and false representation. The dispute turned on whether the plaintiff or his agent had guaranteed that the Brewers' Company would renew the lease of the premises. The Judge held that the evidence did not support the defence on this point, and he gave judgment for plaintiff accordingly.

#### BANKRUPTCIES AND LIQUIDATIONS.

#### JOHN HENRY HOLTON, Sheffield.

THE first meeting of the creditors of the above chemist and druggist, of 133 Carlisle Road, New Grimesthorpe, Sheffield, was held on June 9. Mr. Charles William Wheen occupied the chair. Mr. William Wing, the receiver, read the statement of affairs, which showed liabilities amounting to 339l. 11s. 8d., and assets 113l. 4s. It was resolved to liquidate by arrangement. Mr. W. Wing was appointed trustee, with a committee of inspection. The debtor was granted his discharge.

#### G. R. Butt, Manufacturing Chemist, Rotherhithe.

THE debtor, carrying on business at the Union Chemical Works, Debnam's Road, Rotherhithe, under the style of "Butt, Child & Co.," has presented a petition for liquidation, and his affairs were brought before Mr. Registrar Murray on June 17. Mr. C. Tinson applied for the appointment of Mr. W. H. Pannell, accountant, Basinghall Street, as receiver and manager of the estate, and for the usual restraining order. The debts, secured and unsecured, were returned at 58,400l., and the assets, in addition to the

securities held by creditors, consisted of stock, by debt goodwill of business, and freehold and leasehold plerty the total estimated value of 25,000l., or thereable. T application was supported by creditors, and h H n made the appointment, and granted an injunction til aft the first meeting. The following were returned as relito secured and unsecured, most of the larger amous bei

Arden & Co., Maiden Lane, King's Cross
Bell, T., & Co., Chemical Works, West Ham
Boyle, E., 14 Clement's Lane
Bowerbank & Son, Sun Street
Brinsley, G., New Bridge Streit
Butt, Hook & Co., Beech Street, Barhican
Burgoyne & Co., Coleman Street
Blatspice, Stampt & Co., Knightrider Street
Bradford, W. (Excentors), Laurence Pountney Laue
Benson, J. B., 1 Clement's Inn
Bolton, Mrs., Clarence Square, Cheltenham
Ccok, Son & Co., St. Panl's Churchyard
Cooper & Co., Castle Street, Falcon Square .. 3,1 0 Cooper & Co., Castle Street, Falcon Square Cuthbert, Righy, Upper George Street Crnmp, Wendt & Co., Edmand's Place, Aldersgate Street
Collins, W., & Son, Earl Street, Finsbury
Child, H., Union Chemical Works, Rotherhithe
Capital and Counties Bank Capital and Connties Bank
Davy, Yates & Co., Sonthwark
Davies, D. W., Havelock Road, Addiscombe
Dyson & Co., 39 Jewin Crescent
Dods, J. H. care of 3 Edmund's Place, Aldersgate
Direct B. Co. Porcetts Hill Dixon, R., & Co., Dowgate Hill ...
Dcalcy, H., Newcastle on Tyne
Fourth City Mutual Building Society, Queen Street, Featherby, G., Hill Street, Peckham ... Gould, W., Hastings Gould, W., Hastings
Higgins, Eagle & Co., Cannon Street
Hitchcock, Williams & Co., St. Paul's Churchyard
Haendler & Son, Cannon Street
Hoffman, P. W., Bow Lane
Hoare & Son, 74 Blackfriars Road
Holmes, M., 66A Paternoster Row
Jackson, H., 7 Cannon Street
Knell, A., 11 Jewin Crescent
Kingston, T. W., Northumberland Street. Bethnat
Green Marshall & Snellgrove, Oxford Street ... Marshall & Snellgrove, Oxford Street
Miller, C., Hackney
Miller, C., Hackney
Miller, C., Hackney
Moreyan, E., Newgate Street
Moreyan, E., Newgate Street
Money, Wigram & Co., Leadenhall Street
May & Son, Old Kent Road
Meyers, J. H., Aldersgate Street
Martyn, R. C., Great Winchester Buildings
Meycis, Marshall & Co., Aldersgate Street
Northen & Co., Vauxhall
No. 3 Borough of Lamheth Building Society
National Provincial Bank of England . . National Provincial Bank of England
Nicholson, B., 80 Lombard Street
Philpott & Co., 56 Gresham Street
Puddy, C. H., Lanrence Ponntney Lane.
Phillips, Politzer & Co., Queen Street, E.C.
Phillips, J. J., Goose Green, S.E...
Farton, J. K., 4 South Square
Royal Exchange Bank (Limited).
Renton & Co., Walworth
Robinson, C., Mark Lane
Smith, G. H., St. Paul's Churchyard
Scott, Son & Co., Cannon Street
Smart, Black & Co., Gresham Street
Smart, Black & Co., Gresham Street
Smart, Black & Co., S Cullum Street
Stiff & Sons, Lambeth
Stiff & Sons, Lambeth
Stiff & Sons, Lambeth
Sheath Brothers, City Road
Skilheck Brothers, Upper Thames Street
Sterry, Mrs. National Provincial Bank of England .. .. .. South Essex Advance Company (in inquitation)
Sceptre Life Office
Sands, D. B., 2 Pont Street, S.W.
Townend, —, Wivenhoe Road, Peckham Rye
Tinson, C. J., New Court, Lincoln's Inn
Wentworth Gold Mining Company
Williams, W., & Son, Bread Street, Cheapside.
Wood & Co., Mark Lane
Walker, W. H., Birstall Holt, near Leicester.

The case was again before the Court on Ju 24, Mr. Registrar Brougham granted an injunction estrain ion, commenced by Messrs. Smith & Co., of 8 Cullum, for 3 recovery of 45l. 15s. 5d.

### A. & W. HAMPSON, Radcliffe.

of the creditors of Messrs. A. & W. Hampson, chemical manufacturers and drysalters, was hester on June 30. Liquidation by arrange-olved upon, and Mr. F. W. Burn, accounting, pointed trustee. Mr. Almond was appointed or to be trustee.

#### J. McLE, Chemist, Broadway, Hammersmith.

s brought before Mr. Registrar Hazlitt on the hearing of an application for the approval arrangement which had been assented to at creditors held under section 28. By the ionst trustee was authorised to accept from the a consistion of 2s. 6d. in the pound in satisfaction debts are distributed in three equal instalments at 6, 12, and was to be closed and the trustee released. See a ared in support of the application. There objects, and his Honour made an order approving arrangement.

### JOHN EXRY ROSSON, 1 High Street, Glossop.

st state tory meeting of the creditors of the above t was lid at Manchester. The statement of affairs to the seiver, Mr. James Eckersley, 64 Cross Street, liabilities to unsecured creditors 9591. 38, 11d., and less preparential claims, 3961. 98. A composition of in the und, payable in three, six, nine, and twelve talls ured, was accepted, and Mr. Eckersley was ted true to receive and distribute the same.

### Poisoning Cases.

NOTE. In June 21 a servant in Everton Road, sol, we supplied by a chemist with creasote in a bettle belled "toothache tincture." Instead of leg if to be tooth she drank it. She remained unconfor twidays, but recovered under the care of Dr.

ACID.—On June 7 Samuel Argent, sur50, com tted suicide at Birmingham by means of
cacid.
Jaly 3, at Llandilo, an apprentice at the
bes, chemist, died from the effects of a dose
administered under unknown circumstances.
July 6, W. Bartholomew, 51, medical assistant,
likes, L. J. W. Bartholomew, 51, medical assistant,
weeks ber
d known the deceased twenty years, and
the solution of the solution o

Januarity ded und the care of Dr. Quinton, Whitby June 14 to commit suicide by drinking a laudanum from the surgery bottle. She the care of Dr. Herbert.—On June 10, at the care of Dr. Herbert.—On June 10, at in Elwick, clerk, 30, took five pennyworth died the same night. He had been accustotated by aking an yof some preparation of opium.—On July 3, Slizabeth Ritchie was found dead. She emyworth of laudanum two days before, in the interval.—On the same day, at Hull, as found dead. The post-mortem examinable had died from poisoning by laudanum ry Ogden, in delicate health, took a mixfrom a perpermint, and essence of camphor, from a propermint, and essence of camphor, scription obtained by her husband from mixfrom a laudanum ry Ogden, in Shortly afterwards she

became sleepy, and died, according to medical opinion, from an overdose of cumphor. At the inquest hell on July 11 the jury censured the chemist, Mrs. Wild, for not affixing directions for use.

LOBELIA.—John Richardson died at Carlisle from the effects of Dr. Coffin's mixture of lobelia and cayenne, taken as an emetic. The medicine caused, not vomiting, but perforation of the stomach, which resulted in death.

PHOSPHORUS.—At Thurles Workhouse, Tipperary, an inquest has been held on the body of a dwarf named John Dillon. Deceased complained of a pain in his stomach, and was told by some one in the street that rat poison would cure it. He bought a pot of phosphoric paste, and swallowed the whole of the contents, the result being that he died.—An inquest was held at the London Hospital on the body of Daniel Cunningham, 14, whose death was caused by phosphorus poisoning. He was employed at Messrs. Bryant & May's match factory, but there was no evidence to show how he had come in contact with the phosphorus. It was the first case of the kind that had happened there.

SALTS OF LEMON.—On June 19 Farry Brown was charged at Hammersmith with attempting to commit suicide. She had confessed to taking a pennyworth of salts of lemon in some gin.

SOOTHING SYRUP.—On June 10, at Liverpool, Henrietta Jones, aged 10 months, died from the effects of Winslow's soothing syrup, administered by her mother in accordance with the directions on the bottle. The child had been ailing, and the father was recommended by his fellow workmen to try the syrup. It is said that he purchased it of Denis & Co., tailors, Ranelagh Street.

STRYCHNINE.—On June 18, at Liverpool, Susannah Evans, 22, committed suicide by taking a strychnine vermin-killer.

On June 19, at Oldbury, Maria Harrold, 18, was charged with attempting to commit suicide by taking some strychnine vermin-killer, which she had purchased of Mr. John Allsop, chemist, on May 26—At Redcar, ou June 22, Catherine Wallace, 36, committed suicide by the same means. Mr. Heyland, chemist, was first sent for, and then Dr. Walker, but their efforts were unavailing.—On July 1, at Mountain Ash, Merthyr, Dau Crowley was charged with administering poison to two other men. They had been drinking and disputing, and one of the men, after seeing Crowley put some white powder in the liquor, still drank some. He told the magistrate he did not think, and it was not his business to think. Both suffered from strychnine poisoning, but recovered.

MERCURY PERCHLORIDE.—On June 12 an inquest was held in London on the body of Clara Giddings, 21, servant to Dr. Horsham, who had died from poisoning by corrosive sublimate, which she had taken from the surgery.

WILD HERBS.—Two little daughters of Thomas Frew, Airdrie, N.B., died on June 18 and 20, poisoned by some unknown herbs eaten by mistake for sourceks or sorrel. [The word sourceks does not mean cress, as stated by the British Medical Journal, and there could be no possibility of mistaking the marsh plant Sium nodifforum with the pasture plants, sorrel, Rumex acetosa and acetosella.]

The Poisoning by Hot-cross Buns at Inverness.—The report of the analyst employed by the Crown in the above case has been sent to the Crown office. No arsenic was found in the buns nor in any of the ingredients from which they were made, nor any trace of metallic poison. There was found, however, an alkaloid possessing irritating qualities, but its exact nature has not been determined. It appears from the evidence collected by the authorities, that loaves and buns were both made from one lot of dough, spice being added for the latter. The loaves turned out perfectly good, the buns bad. The natural inference is that the poison, whatever its nature, was in the spice.

MORPHIA AN AID TO CHLOROFORM.—Dr. A. Crombie, of Dacca, Bengal, in the *Practitioner*, and subsequently Dr. A. S. Currie, of Sydney, in the *Linect*, have pointed out that by the hypodermic administration of morphia simultaneously with the administration of chloroform the unpleasant effects of the latter are almost entirely obviated.



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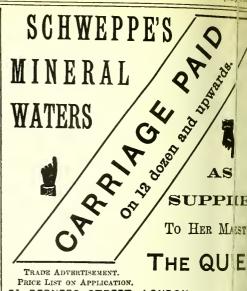
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See HENRY LAUFNCE Advertisement, pag 5.

SYRUP 0E HYDRIODIC ACID. See ge 22.

HAY'S SOLUBLE ESSENCE OF GINGEF See po

HAY'S GINGER CHAMPAGNE.

See page 141

See pag 3.

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SPECIAL ATTENTION is called SWISS PILLS page #

OMCEOPATHIC MEDICINES (KEEN & A WEL

BAKER. MAY

See page 2.





THE SESSION OF THE ME ICA COUNCIL.

THE General Medical Council have met in Lo on du the present month, and among the business tracted some which may be of interest to some chemist, Five members of the Council took their sca's. The were Lyons, M.P., Crown Nominee for Ireland, place Dr. A. H. McClintock, deceased; Mr. J. Marsha u plac Sir J. Paget resigned, as representative of e Eng



of rgeons; Dr. T. K. Chambers in place of Dr. ceased, for the University of Oxford; Dr. P. Watt in place of Mr. Spence, deceased, for the tity Edinburgh; and Mr. T. Collins in place of L. L. for the Apothecaries' Hall of Ireland.

resint, Dr. Acland, in an opening address assumed cho but withal an heroic tone. He had read the f th Royal Commission, and was willing to accept n deed thereby. Should Parliament see fit to then f their present duties, they would indeed reit u il that relief should come they would fulfil ties all the extent of their powers. In a subseiscus in, and in reference to suggestions that the show not undertake new duties while their [future erta Dr. Haughton appraised the report of the omm ion at more like its true value. He said, "it hac fused wrangle of discordant elements that it woll considering. It was absolutely the most publ document he ever had the misfortune to read. would ndertake, with the help of the Irish members out ny Bill founded upon it. In fact, it would btain he sanction of anybody outside a lunatic Dr. aughton cannot be accused of over-estimating er of e Irish members.

rivy uncil submitted a draft Bill to the Medical forther opinion relating to the registration of midn Englid and Wales. The Bill was submitted to a tee.

ne moon of Professor Macnamara the Executive ttee we requested to inquire into the precautions gainstersonation at the various medical examina-In sulort of his resolution, Mr. Macnamara made urious velations. A certain practitioner in Ireland en offed 2001, by a student to pass one of the exions fo him, to qualify him for registration. ioner h declined to have anything to do with the t, and d given notice of the proposal to the Irish Media Council. The name of the student is in the sion of e Secretary of the Council, so that if he ever turn u with a diploma for registration he may exre mor examination than is usual. Mr. Macnamara rstated hat at a recent Preliminary examination of ish Colge of Surgeons the candidate whose name out at t top was afterwards proved not to have been and at e time. He had heard of a gentleman who that Pliminary examination for himself and subotly for tree other people. He had heard, also, but formatic had come in such a way that he could not , that thre is a very successful "grinder" in Dublin seeps as dent for the purpose of passing Preliminary nations. It seems a pity that some more vigorous ares hav not been taken in Dublin with reference to several ransgressions, if they are indeed anything than "il sponsible chatter."

the cour of a long academic discussion on the various inations, cising out of the visitors' reports, Dr. Storrar story which is worth recording. He said somethir five years ago Dr. Sharpey, when examining anothing out the circulation of the blood?" The court was, " the other." Dr. Sharpey was equal to the sion, and ked, "And how does it get across?"

he Plan opaia Committee [reported that they had e2,500 coes of the Pharmacopaia on hand, and that y were disjoing of these at the rate of about 1,000 a. The Comittee was made permanent in view of the coaching resisty of a new edition, and power to spend

100% a year was granted to them. They were to appoint editors who should draw up a report for the Council as to what should be done in regard to the Pharmacopeeia.

The Dentists' Association brought their troubles before the Council. They are still burdened about those chemists' assistants who registered as dentists. It will be remembered that Sir Farrar Herschell had advised the Council that those gentlemen and others were quite justified in claiming registration, and on his advice the Council had refused to erase the names. Now the Dentists' Association brought forward an opinion they had obtained to the contrary effect from Sir John Holker, and coolly asked the Council to test the case by erasing a name and letting the person thus aggrieved fight if he should so please! The Council refused to accede to this proposition.

#### COFFEE MIXTURES.

THE Chancellor of the Exchequer seems to have made an unconditional surrender to the manufacturers of coffee compounds and substitutes. On condition that they pay 2d. per lb. excise duty on the final result they may mix chicory, dandelion, malt, dates, acorns, or any other delicacies with coffee berries, and sell the mixtures in as fascinating forms as they can devise, so far as the Treasury are concerned. The following resolution was passed in Committee of Ways and Means in the House of Commons on the 6th instant, on the motion of Mr. Courtney:—

There shall be granted and paid to Her Majesty, her heirs and successors, upon every half-pound weight of any article or substance called by any name of coffee or chicory, or prepared or manufactured for the purpose of being in imitation of or in any respect to resemble or to serve as a substitute for coffee or chicory, which is sold or kept for sale in the United Kingdom, and also upon every half-pound weight of any mixture of such article or substance as aforesaid with coffee or chicory, which is sold or kept for sale in the United Kingdom, the duty of excise of one penny.

Mr. Gladstone, in reply to some objections to this resolution, said the Treasury were concerned with the collection of the revenue and not with adulteration—a theory which Mr. Warton denounced as immoral, but which is, no doubt, the only practicable principle to adopt. If persons sell as coffee anything which is not coffee there are statutes under which they can be prosecuted; but if people choose to buy a coffee-substitute, no matter how objectionable it may be to some refined members of Parliament, it is not the business of the tax-gatherers to interfere.

#### THE MEDICAL ACTS COMMISSION.

THE Royal Commission appointed to inquire into the Acts affecting the medical profession have issued their report, though the minutes of the evidence on which that report is based are not yet before the public. The report is of such a nature as to effectually prevent any further serious attempts at medical legislation for some time to come. may be brought forward next year as a sort of formal recognition of the labours of the Commission, but we cannot believe that any statesman will admit the necessity of disarranging existing conditions for the introduction of such dangerous, or else trifling, changes as the Commission recommend. The truth seems to be that a few medical busybodies, and most of the medical journals have for some years occupied and exhibited their critical faculties by the institution of a few grievances which have become permanent stock, and their perpetual clamour has induced some section of the legislature to believe that something was wrong. The real kernel of their complaint, no doubt, has been the practice of unregistered persons. The hope has been indulged that in any new Act a clause might be inserted enabling registered practitioners to secure more exclusively

the monopoly of the treatment of diseases. This requirement the Commission unanimously refuse to concede. They say (par. 60) "We consider it undesirable to attempt to prevent unregistered persons from practising, but at the same time, we think they should be prevented from representing themselves as being registered, or from assuming titles which would lead the public to believe that they are regular medical men."

The other "cries" for which new legislation has been demanded have been mainly these two: First, that the Medical Council should be reconstructed, especially with a view to the representation within it of the general body of practitioners; and secondly, that a system should be adopted to secure greater uniformity in the examinations whereby persons gain admission on the register.

The Medical Council as now constituted consists of six members nominated by the Crown and 18 delegated from the various examining corporations. In a sense those 18 delegates do represent the interests of all the classes of medical practitioners, but the latter, or rather their journals and a few of their active leaders, think they ought to have periodical elections, and consequently more direct representation; they want the Medical Council to be rather a medical parliament than a subsidiary of the State, appointed, as it is, in the public, and not expressly in the professional, interest. This demand the Royal Commission have to some extent supported. Their report recommends that the Medical Council shall consist of 18 members, as follows:-Six to be appointed by the Crown, as at present, two to be elected by the registered practitioners of England, one by those of Scotland, and one by those of Ireland, four to be appointed by the Divisional Board of England, two by that of Scotland, and two by that of Ireland. The Divisional Boards are to be newlycreated bodies, whose business we shall explain immediately. Meanwhile it is important to add that very ablyreasoned memoranda in opposition to this portion of the scheme of the Commission are appended to the report over the signatures of Mr. Simon, Professor Turner, and Mr. Sclater-Booth.

The favourite idea for securing uniformity of examinations has been the establishment of "conjoint boards," one for each division of the United Kirgdom. This proposal is adopted by the Commission. They advocate the formation of Divisional Boards-one for England, one for Scotland, and one for Ireland. These Boards are to be representative of the medical corporations and of the Universities in their respective branches of the kingdom; they are to be subsidiary to the General Medical Council and represented on it, as already explained; they are to supervise the professional education of medical students, regulate the examinations, and appoint examiners in their respective countries. These Boards are to conduct certainly the final and, perhaps, some of the other examinations for medical registration. The medical corporations are to be still at liberty to confer their degrees with or without other examinations, and such degrees are to be recognised in the register; but for the purposes of registration such extra examinations will not be necessary.

This part of the report is dissented from in some particulars by Mr. Simon, in toto by Professor Huxley, the Bishop of Peterborough, and Professor Bryce; and in toto as far as Scotland is concerned by Professor Turner. The grounds on which it is advocated are simply these: That it is generally considered that the examinations of the Apothecaries Company of England, and those of the Apothecaries Company of Ireland are not satisfactory; and that certain of the diplomas now qualifying the possessor for registration

do not guarantee the attainment of full medical kwl. Some are medical qualifications only, some sured and several do not assure any acquaintance with new

The other recommendations of the Royal Compsion generally matters of detail subsidiary to the seme have sketched. They propose to make the registic bonâ-fide foreign medical graduates easier in thicon and they intimate their opinion that the revu University should be authorised to grant medic dep They propose to give compensation out of the fee f dates to the medical corporations which may suff the the loss of fees paid for affiliation in consequence the mation of the new Divisional Boards; which mer, as fessor Huxley points out, that the corporat's diplomas are of the least value will be likely to gittle compensation. They suggest that the Medic Co might advantageously include in its number dor persons not of the medical profession. Mr. Sim dis from this suggestion on the ground that thus would have to stand still while matters familiate al rest were explained to the non-technical memrs. decline to recommend that the request of the Brah D Association for representation on the Medical Co cils be granted. They have besides received reques from Association of Surgeons practising dental surry as that non-surgical dentists should not be allow to themselves "surgeon dentists"; from the Lond Scho Homeopathy praying for the establishment of hor pathic school or the appointment of homeorath lectu and from the National Association of Medica derba asking for special privileges. The Commissions de recommend any of these concessions.

The report is signed by all the Commissioners at all agree with it entirely are the Earl of Campdown, Right Hon. W. H. F. Ccgan, Sir G. Jessel, Sil. Jet and Mr. McDonnell. The Bishop of Petertbugh, Sclater-Booth, Mr. Simon, and Professors Huly, Tur and Bryce dissent more or less from the general nelusi That is, the report as a whole is the conclusion of minor The report will, we think, have at least the go effect convincing the country that there is no sufficie reasor occupying public time with the affairs of the dical fession. Surely the Medical Council ean of hemse effect the few necessary modifications in the ledica aminations which will ensure sufficient thoroughess, moment's consideration will satisfy anyone the 10 g of medical practitioners in the United King im for better arrangement than one. The reform of ie Mo Council in the manner indicated does not come ad its anyone enamoured of simplicity. The reduion of number of members from 24 to 18 seems to he been posed with a view to economy. But all that is vedw far more than balanced by the Divisional Bc; s, and whole system would be far more complicated that no An active Medical Council, endowed with greatexet power, and directly representing the medical ofer which is what is aimed at-would become imm nuisance to pharmacists, and probably to many cereed of society.

### BOGUS DENTAL DIPLOMS.

A COMMUNICATION emanating from the Wisc in D. College has been lately circulated among certa dentities country inviting them to remit \$12 for ember honorary degree (D.D.S.), and diploma. The cital, we copy below, was received by one of cherassistants registered under the Dentists Acts where the objects of so much legal attention by the

s country. It bears a lithographed sketch of and runs thus:—

con College.—Incorporated under the Laws of Wisconsin.—

of Rf, M D., Professor of Anatomy and Surgery; George

L.S., Demonstrator of Operative Dentistry; O. B. Merrill,

De astrator of Mechanical Dentistry.—Porcelain Plates a

professor of Mechanical Dentistry.—Porcelain Plates a

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wir on to be a regnlar practising dentist, we send the cent College announcement, hoping you will endorse our title qualification for graduation regardless of time col. As is the custom of other colleges desiring represent henorary degrees on worthy practitioners, enclosed find with you can fill out and return. Should your statement properties of the faculty, we will make you a member of this come on you the honorary degree D.D.S. (Doctor of Dental and you an elegant diploma, with your name artistically English letter). This diploma is 17 by 22 inches, energy d, and printed on parchment deed, with signature of each of the college seal.

in, honorary degree, and diploma, §12. The amount to by stroffice order or bank draft, and the diploma will be a or, if you prefer, will be sent by express, C.O.D.

Respectfully yours,

Wiscon, May 24. GEORGE MORRISON, President. by mission:—S. W. Menzie, Esq., Court Commissioner, al Clit, Town of Delayan, County of Walworth, State of

who that this notice will suffice to prevent any machave fooled away \$12 over his "elegant from aking himself ridiculous by sporting the hit intended to confer.

### CEMICAL TRADE IN THE UNITED STATES.

has en issued by the American Census Bureau he pition of the chemical manufacturing trade ited ates on June 30, 1880, and the actual prothe yr preceding that date. Some of the figures at be, e presume, only approximate. There are --, we in 1880-according to this report, 1,349 factors in the United States, employing in all ersons including 1,500 females. The capital includi the value of buildings and machinery, was 56. le wages paid for the year amounted to 28. cording to this the average annual earne wornen in American chemical works amounts prati more than 30s. per week. The total value and ll other materials used during the year in afactul is returned at \$77,314,281, and the folateme of the quantity and value of the resulting is give :-

Quantity Value

				Quitallitty	ABITTE
colours				in Lbs.	in Dollars
cenes	• •	• •		80,518	107,292
te of am n		**		344,114	99,242
oc or amr. D	18,	• •		16,575,088	618,485
	• •			39,217,725	808,165
ie .	**	4.0		3,692,443	277,233
orus	• •	* *		401,690	114,752
heid car		**		56,292	29,271
THE PROPERTY.		* *		18,363,066	2,281,600
bard soar		• •		33,058,411	1,707,969
ap		• •	• •	378,743,627	18,299,350
ine	• • •	1.64	• •	34,494,100	358,280
glycerine	**	**	• •	7,117,825	961,477
NOTES !	• •	* *	• •	3,039,722	1,830,417
lead ,	**	• •	• •	67,482,415	4,086,821
salts of 1		• •		123,477,899	8,770,699
ADIZ	**	**	• •	11,375,466	758,680
e of lime	••	11	• •	20,121,761	766,337
and pea	h	* *	• •	6,593,009	156,892
0.0		**	• •	4,571,671	232,643
ur .		• •		40,259,938	8,554
uric acid		**	• •	1,200,000	21,000
130		••	• •	308,765,432	3,661,876
ifactured r	lures	•••	* *	151,839,435	4,551,212
nd barytes		**		727,453	tons 19,921,400
		**	••	19,165	371,829
ther produ		**	• •	893,802	
		**	• •		44,946,831
Total value	all pro	ducts			117 407 074
	2.0		• •	_	117,407,054

### BRITISH MEDICAL ASSOCIATION.

THE British Medical Association will hold their fiftieth annual meeting at Worcester on August 8 to 11 inclusive. Dr. Strange, of Worcester, is the President-elect. Mr. Wade, of Birmingham, will deliver the address in Medicine, and Dr. Stokes, of Dublin, the address in Surgery. The work of the Association will be conducted in eight sections, each with its president, vice-president, and secretaries. A notable innovation, which is a sign of the times, occurs at the public dinner on the evening of August 10. Tickets for the dinner are supplied at 21s. for those who take wine, and at 14s. for abstainers.

#### THE DRUGGIST AND LOFTY AIMS.

Skies change, but the English druggist will find much sympathetic harmony in the plaint of a brother chip across the seas. Mr. Chas. C. Fredigke, of Chicago, writes an article in the Therapeutic Gazette discussing the multitudinous "new remedies" which a druggist has to keep. To take one section of these preparations only, he says :-"There is a legion of pepsin preparations for the stomach, a legion for the liver containing idealised glycogen, another for the duodenum and pancreas, containing duodenin and pancreatin, another for the upper segment of the small intestines containing idealised succus entericus and the secretions of Brunner's glands and Lieberkühn's crypts, and at present manufacturers vie with each other to produce articles to obviate digestion entirely." And it becomes sublime, he says, to see Dr. A, B, or C, "having recourse to powerful microscopes in order to be able to endorse one trade-mark nostrum and condemn another." Then he discusses the druggist's position in relation to these multifarious compounds, and the crusade against them in various quarters. He wishes the reformers well, but he hardly anticipates their success. "Some years ago," he says, "I pursued similar aims, but in my enthusiasm left the important fact out of the account that when I came into it the world was already given away; it was dried, cut, and prepared and finished before me, and therefore, that to reform it, or to find fault with it, was, to say the least, foolish on my part. You see, my destiny was to settle, like an oyster, on the shore of Lake Michigan, not to reform the shore, nor to find fault with the lake, but to make for myself a home and to see to it that I was not covered up and smothered by the sands, nor washed away by the waves. Others were there before; many more came afterwards, oysters like myself, only that some were larger, others smaller. The position of an oyster in organised society is rather commonplace, and so it came that there were some who were not satisfied with it, and to distinguish themselves from the others they called themselves by an outlandish name, never heard of before; its phonetic sound was very similar to Farmercist, and since in organic nature everything grows by what it feeds on, they soon were not satisfied with that name or claim, but wanted it 'registered,' 'trade-marked,' 'patented,' or whatever that means, and, would you believe it, they actually succeeded. They had it 'registered.' It was last year, and they were even liberal enough to confer that sign-mark upon us also. But we are oysters still! Though a registered oyster now, yet I feel that I am sinking; the sands and the waves seem to take no notice of me; seem to care nothing for my sign-mark nor for me; an eddy is forming about me; the registration badge has fallen out of my muzzle in the struggle for existence, but in this extremity I have caught hold of the recent reform movement, and will cling to it in the desperate hope that I may yet be saved."

#### PATENT MEDICINES IN RUSSIA.

THERE is no country in the world which has been so paternally protected against the wiles of patent-medicine dealers as Russia. Dread penalties are threatened against anyone who shall introduce a secret medicine into Russia until it has been approved by the Medical Department of the Privy Council, or what corresponds to that body in Russia. And a couple of papers on patent medicines which have recently been sent us from St. Petersburg-one by Mr. C. Schuppe and the other by Mr. J. F. Martenson-tell us to some extent what has been the result of this tender solicitude on the part of the Government. Mr. Schuppe says :-"The whole of Russia is literally deluged with secret, readycompounded, and so-called universal cures. France, England, Belgium, and Germany prepare these almost exclusively for foreign sale, and it may be said that Russia is exploited in this respect more than any other country." The result of the superintendence of the Government seems to have been that while dangerous medicines do to some extent get excluded, the country is flooded with a multitude of compounds, many of which seem to be put up expressly for the Russian market, composed of the cheapest ingredients, and of such a simple nature that most of them can be bought at any pharmacy without a prescription. Mr. Schuppe advocates a law forbidding the publication of advertisements of medicines beyond the mere indication of their titles and where they may be obtained. He gives several illustrative instances to prove the charlatanie character of many of the medicines introduced into Russia-a theory which it can be hardly difficult to maintain. One of his examples is the "American citizen Morisson," whose "Thistle medicinal fumars" has worked wonders in "Scotland and America" in diphtheria, neuralgia, and fevers, and consists simply of tricoloured papers soaked in a solution of saltpetre, for fumigation. Draschkewitsch, of Ehrenburg, sells a fever remedy which consists of one drachm of herba plantaginis, with which he declares he has worked 3,000 cures in Turkey and Caucasia. Medsatulli Alchalzihi, also of Ehrenburg, sells pills, tincture, and essence, which will extend life to an average of 160 years. He has acquired his wonderful knowledge from the study of Phænician, Egyptian, Assyrian, Babylonian, Armenian, Greek, and Persian manuscripts. Kouzucha, of Constantinople, sells a tape-worm remedy-not unknown also in this country-which consists of one scruple of male fern extract in one capsule and turpentine in another. This was especially recommended to the Russian Medical Council by the Russian Consul at Constantinople. Vin de Baudon is composed simply of Muscat-Lanel wine containing some calcium hypophosphite.

We are bound to agree with Dr. Schuppe that foreign manufacturers of patent medicines are treated with undue generosity if native inventors in that line ob!ain simple justice. The latter can only obtain permission for the sale of their compounds on condition that they submit the formula to the Medical Council and that it is approved by that body. In such cases the price is fixed in accordance with the legal medicinal tariff, and the discoverer is granted a "privilege" for a period varying from three to six years. At the end of that time the formula is made public. Foreign medicinal compounds, on the other hand, are allowed to pass the Customs if they have been examined by this Medical Council and found by them to contain nothing injurious or poisonous. It would seem by some of the names of patent-medicine makers in Germany that Russians who feel a vocation to bless their fellow-countrymen with a patent medicine find it advantageous to

establish their homes and their factories outside borders of their fatherland.

Mr. Martenson's paper gives a general survey of cactual value of a number of toilet articles, mostly origin, which appear to be popular in Russian society at more or less extravagant prices.

### PROSPECTS OF PHARMACE TICAL LEGISLATION.

ALL over the country there are chemists and draists wh are expecting that at no very distant period Pament i going to take their case in hand and do some ng which will help to secure their position, while many chose wh have given up hoping for any great things from arliance are quite clear in their opinion that some legislan in the favour would be both just and desirable in the puc interest Month after month we report resolutions passed meetil of the trade urging that legislative measures of protect character are required, and these resolution are of brought directly before the Pharmaceutical Coril. Me bers of the Council encourage the agitation. The exdent of the Pharmaceutical Society is calmly clide 1 the time is now very near when the trade in all more drugs will be exclusively in the hands of registed che and druggists; the ex-vice-president every n and invents an all-embracing scheme which is to rais harme above the vicissitudes of ordinary traders; t pro i advocates of the curriculum mysteriously hint this is that which is needed to enable us to go to Pa ament ask that the dispensing of the country should leoning chemists and druggists; and every polite commics which the Council receives from a departmen of standard hailed with rather juvenile delight as evidee that Majesty's Government is waiting and anxious be grad to us. Correspondence in our pages, and that ich app elsewhere, abundantly testifies to the widely read by or rather claim, of legislative protection, and have o means of knowing that in certain quarters a b ef pro that if it were not for the almost perfidious ) wardie certain men and journals the ruinous compet on white most large towns has invaded the trade mit have prevented.

We are quite well aware that if we were to put an article every month inveighing against the tors, dragroeers, and universal dealers who have so sensity in the retail drug trade on the one hand, and de uding the Government an Act of Parliament which ally prevent such dealing on the other har we signatify a considerable section of readers. The work stop to inquire whether such articles could ssibly any effect on either the Government or the graff, but would experience a soothing effect on themse, and the momentarily satisfied.

We need hardly say that we would do a thing might lie in our power to check the ravages the m competition which has grown to such ugly proj tions past 10 or 15 years; but we are quite certai hat w articles will not accomplish that end. Furth it is a to add a few words on the policy of expectanc which a to be taking possession of the trade. Selfeceptic this matter can do nobody any real good, d it surely be the barest prudence for the who spending their energies on the construon of scheme intended to cescue or that legislative trade from its dangerous condition to con er wh their plans have any reasonable prospect of ccess. have no wish to depreciate the judgment of se who hopefully expecting Parliamentary aid; but w onfess







ESIDEN OF THE PHARMACEUTICAL SOCIETY.

PRESIDENT OF THE CHEMISTS AND DRUGGISTS' ASSOCIATION.

we ca judge of the bases of their hopes, their are : least as gloomy as the present position. presented probably for some years to come, there ance for any Bill in Parliament, however reaand heever it may accord with general desire. But e shoul come when legislators are hungry for more there ally any solid ground for anticipating from ent such sceptional legislation as is looked for? First m must'e formulated, and that of itself would be matter Passing general resolutions and framing emands e quite different processes. The modest barmac Act Amendment Bill drawn up by the ceutical ouncil goes no distance towards accomthe qects so freely demanded. It asks for much are than the confirmation of the principle arliam't has already adopted: but the Privy will be nothing to do with even that little , and it; not certain that any single member of int can induced to introduce it. If so, what sort ce exist for the vastly bigger ambitions which zorg wherish? We are bound to say that those re contrir to the spirit of modern legislation. There a doze members of both Houses who would vote a mo poly of medical practice to medical men wyal Comission on the Medical Acts unanimously roposition: an efficient protection of the adicatin heir qualifications is all the medical men for. Thich way does this fact point in respect of ection o harmacy?

Then as to the chance of getting all medical dispensing into the hands of chemists. The argument in favour of this is no doubt strong, and we do not wish to under estimate it. A medical man who dispenses his own prescriptions may make mistakes, and may commit crimes, with but little chance of being detected. On the other hand, it must not be forgotten that the habit of getting advice and medicine from one person is so general that to overthrow it little less than a social revolution would be needed. We are aware that nearly all the nations of Europe recognise by their laws the desirability of separating the two practices. We cannot go into the subject now, but we may mention one fact which, if considered, will show how widely the conditions here and there differ. In Germany, the ordinary fee paid to a medical practitioner for his prescription is 2s. or 2s. 6d.; for the very high class men it may go to 7s. 6d., or even 10s. We do not say that some such system is ultimately impossible in England; but we do say that the only way to bring it about is for pharmacists individually and collectively for many years to encourage and educate the profession and the public towards the adoption thereof voluntarily. Patient, persevering efforts in this direction, and a willingness to work for the doctor at a very moderate profit, would in time have its effect, and we wish that such efforts were more persistent.

What is certain is that no law will ever be passed which will guarantee any rate of profit; and the only way of ensuring profits in the future will be to offer to the rublic such skill. wares, or knowledge as is needed and not over-supplied.

### Parisian Gossip.

- Our head *pharmaciens* in the Navy are, in future, to rank with a *capitaine de frégate*, in consequence of a recent order of the French Minister of Marine.
- The orange flowers in the Tuileries, Luxembourg, and Versailles gardens have been recently sold at auction, as is the annual custom. Some of the trees are two hundred years old.
- The latest additions to chemical nomenclature are the following, which have been transcribed by a recent contributor to one of the Paris papers:—L'Arhomononitrodiphyldiactyffine, Diparatolyldidiazophénylurée, L'Ethylénététraméthyldiphénylphosphonium.
- The gold medal offered by the men of science of Europe to M. Pasteur was formally presented by a deputation, headed by the equally eminent M. J. B. Dumas, a few days since. M. Pasteur is now in his sixtieth year, and continues his personal investigations in the laboratory of the *École Normale* with all the vigour and persistence of his earlier days.
- A Paris patent-medicine man describes his chlor syrup as bottled sleep—le sommeil rendu en flaçon. Puffing as a fine art can go no farther.
- Tar water, much advertised here, has captivated many families as a preventive, palliative, or alleviative in throat diseases—it mixes well with table-wine. One doctor, on being consulted, said, "Tar is for the bottom of ships, not for medicine."
- The medical service attached to each police station in Paris having proved very useful to the public, the authorities are now organising cases containing an assortment of the most useful remedies to be placed in each station, but under the control of the official medical officer as regards distribution. These medicines are not to be resorted to during the hours when the pharmacies are open. Their contents will embrace ergot, ether, spirits of camphor, mustard plasters, flax seed, emetics, chloroform, laudanum, lint and bandages for fractures. Persons using them who can afford to pay will be required to do so.
- An imaginative penny-a-liner has issued a warning against celluloïd ornaments, which, he says, are of the greatest inflammability. The combustion may be compared to that of phosphorus or a train of powder.
- A recent case of hydrophobia in Normandy, it is claimed, has been successfully treated at the Hospital of Caen by Doctor Dumont. A shepherd, aged 38 years, was bitten on April 16, and at the same time a woman and a young girl. The woman died on May 20, with all the symptoms of hydrophobia, but the wound of the girl having been washed with a solution of phenic acid, she has so far escaped an attack. The shepherd went into the hospital on May 23, with very violent symptoms; Doctor Dumont ordered subcutaneous injections of pilocarpine, which produced abundant perspiration and salivation. He prescribed also bromide of potassium, chloral-hydrate, and syrup of codeine. On May 30 the patient was considered to be cured. The particulars have been laid before the Academy of Médecine here, and excited much interest. It is said that pilocarpine has already been used with success in a previous case by M. Dartigues, in the Gironde.
- The drugging of claret for home consumption as well as for exportation continues on a grand scale. The police have recently made an important discovery at Bercy, where the principal wine entrepôts for Paris exist. A quantity of liquid denominated gros noir du Cher has been seized, and is now being subjected to analysis. This precious (?) mixture imparts colour and body to cheap light wines; consequently it is supposed to have been very freely used of late.
- Another innovation of the Municipal Government about to be inaugurated is a dental service for the children of the primary schools. In view of the current prices among dental professors, the City of Paris acts with a large degree of generosity towards the rising generation.

- A great many cases of poisoning among have occurred in recent years. Their favor exarsenic, as being inexpensive and effective, I prim doses are not regulated by grammes, but by the good fashioned avoirdupois pounds, quarters, and does they can purchase such quanties of the proving is surprising—always the rats, I suppose.
- A little looking up of this market by accitrate of magnesia makers will do no harm, a had 3f. for a bottle recently, which I could ha England for a third of the money.
- Those excellent Davidson syringes (a gile only required) have come into the market from the States. They are likely to give the ancier wind France a battle.
- Oil of spearmint is what your corresponds as an insect repellent. The modern Leather Stking Adirondacks find it to answer.
- Still "wanted," Walder, the assassin of ser Pharmacien Place, Beauvau; it is nearly two "left."
- The Fenayrons, alluded to last month, still at Versailles. Fenayron has just been sended month's imprisonment for fraud is respect an amedicated water, a sentence which probably snothim much.
- The "Phébus," a new apparatus by whi illumgas may be produced without fuel, is now the without being able to say anything of the crite invention, it may be worth looking into the business men.
- A very considerable establishment, situ d at near Paris, devoted to the manufacture of colloid was destroyed by fire on the morning of the loss is stated to be about 40,000*l*. sterling.
- Our most admirably mounted municipal tinues its work. The June report includes the foliations work. The June report includes the foliations. Only 8 samples of vinegar we examined which but two were good. Of beer 21 sales shood, 11 bad, and the remainder not much analysis has attracted much attention recent were examined, of which 69 were pronounce and the others indifferent. All the samples confectins pected were pronounced bad, and the stereof made for the perfumery. If our official instructions were made for the perfumery. If our official instructions were they will fall upon so frotting drinks. I have tasted lemonade, by London, which actually made my teeth chattactid was present in such an excess.
- Cosmopolite or nothing is the vogue in it crack pharmacies. What a waste of "Honi soit qual yp and "E Pluribus Unum," with spread eagle stars, lions, unicorns, &c., &c., on the large plate-g swind our drug stores—English Spoken, Se Habla spagool spricht Deutsch duly inscribed undernet decorated blasons. Unhappily the clerk we exotic tongues is generally absent if wants engaged dejeuner.
- Another thing which never ceases to exc my as ment (not admiration) is those flacons con ribbons—c rful to upon in passing the enterprising apothec ea' win Bottled serpents, formerly considered an independent with the infant? Caïman, comfortably and in jar, are now left to the provincial shops ments.

PHARMACEUTICAL FOOTBALL CLUB.—
meeting, held at 17 Bloomsbury Square,
following officers were unanimously elected
1882-83:—President, Professor J. Attfield
1882-83:—President, Professor J. Attfield
Presidents: Messrs. M. Carteighe, T. Greenis R. Brem
G. Plowman; Captain: A. Lucas; Vice-Cap
son; Hon. Treasurer: G. E. Jones; Hon.
Freathwaite; Committee: Messrs. Betty,
Fowler, and Job.



Literary Notes.

7 15, 1 .]

Marra of Colours and Dye-wares: their Properties, applie on, Valuation, Impurities, and Sophistication. Second lition, revised and enlarged. By J. W. Slater. London Crosby, Lockwood & Ce.

as is agreat deal of information contained in this alon urly any subject which is required to be known erning a various dyes, short of working formulæ for them An alphabetic arrangement of the subjects and is opted, and not only dyes, but terms used in heal and yeing treatises have rangraphs devoted to A urul feature in relation to the numerous aniline mentiod is that the name of the firm making the lot is gerally added.

### The Position of Pharmacists in Germany.\*

of the verage English pharmacist with some knowof the legal position of his Continental brethren,
e most
our readers envy the happy lot of the Gerapother, and are only restrained from changing
s with n by ignorance of his larguage, the fabulous
ty of the examinations, and a curious complex of ideas
t issult prejudice. We cannot tell if cur Teutonic
as kno
enough about us to envy us, but the book
t us she that they are well prepared by dislike of
the position of the control of t

Grms planmacist, as English idealists would paint is sembly connected with the State; he buys an ele fo a mederate sum, and settles down to a city buy life, assured of a comfortable income, read by sellow-citizens, and beloved by the poor; a physical prices fixed by the State, and Laving before to the form of competitors or of impersonal stores. Such a steened as the better than Arcadian; it must leave the release to the highest faculties, for intellactive and clarity; and bad apothecaries must be as the as the as poor ones.

these grateful Germans have been trying to alter lelighter state of things. With that admirable states hich is rational, Dr. Beettger appends to his located of the "literature" of the subject. Between and 188-21 years—no less than 59 works have been bed, of hich the whole or, more rarely, a section, has devote to agitating for reform, while articles in 18, maxines, and reviews, are innumerable, or at have ner been counted. The agitation went on 185 for any years, but the author heads the chapter with 78 with the words "Adjournment and Mis-

ge of th Apothekenreform." terma Government is more paternal or autocratic ows; anit is interesting, by the way, to note throughbook | indications that the agitators, while conof the justice of their cause, felt that they were g in mon an agency which might happen to act in carce whitheir wishes, but would be restrained by no d for the ideas er any body's from taking a course of h and copelling them to follow. The object of the an Gove ments before the Union seems to have been ide prer medical supplies for their subjects, and to them f m ignorance in the apothecaries. With the stion we are not now concerned. But the sence a material well-being of apothecaries seem to seen the ht equally important. To secure the latter essions were given. The authority conceded to Apothel B. and his heirs for ever, under certain sions of pproved skill and integrity, the sole and de right, sell certain specified medicaments at speci-

Apothekenreform bewegung in Deutschland von S. Ton D. Boettger, Berlin, 1882. 8°.—History of the Agitation Reform of [the Law of] Apotheken cr Fharmacies, p. 8+200.

fied prices within a well-defined area. While the population remained stationary this arrangement, known as the Real-concession, answered well. The fixed prices neutralised the evils of monopoly, the monopoly secured the apotheker an assured livelihoed and an established social position which demanded a fair standard of education. The public lost the numerous shops and the lower prices begotten by competition, but they gained reliable medicines prepared by men who had a pride in their calling, and were raised above that poverty which is so great a strain on fair dealing.

It is evident that very slight alterations in circumstances would destroy this couilibrium. The rapid increase in the population during the present century seems to have been the chief disturbing factor. When the inhabitants of a district doubled or trebled in number, the value of the Real-concession increased chormously, for by its terms no other pharmacy could be established. At first sight it seems that apothecaries would become wealthier, but such has not been the case. The possessor of a Real-concession found it more profitable to sell than to retain it. The incomer had to pay such a high price that the returns little more than covered the interest on the capital invested, leaving the owner's labour unremunerated. So the best chance was to sell the concession at a profit after retaining it a year or two. Speculation took the place of occupancy, and was supported by the unduly-increasing number of qualified apothecaries in search of establishments.

Localities too thinly populated before to support an apotheker began to need this accommodation. A new principle was in part introduced to meet this demand. "Personal-concessions" were granted to particular apothecaries giving them the sole right to keep open shep for the preparation of medicines during their lifetime, but reserving to the authorities the right to vend or otherwise dispose of the concession. This obviates the evil of the enormous increase in the value of the Real-concessions, but it does not entirely meet the difficulty of increasing the number of shops step by step with the growth of the population, and it glaringly violates the theories of political economists. It was under the influence of Adam Smith and the Manchester sel ool that the demand for free trade in pharmacy first arose in Germany. Free trade must here be understood as liberty for any qualified pharmacist to establish himself where he will.

Another theory which has been vigorously prepagated is that pharmacies are part of the sanirary organisation of the State, and should be under official control. All pharmacists should be civil servants appointed by a special board, to which they should be entirely subordinated. New pharmacies should be established on geographical, not commercial, considerations; distance from the nearest pharmacy, not the number of inhabitants, being of greater importance.

We cannot follow the fortunes of the conflict between these ideas. The battle lies chiefly between the Real- and the Personal- concession, though petitions from the districts where either of the two systems is in force almost invariably ask for the other. The agitation has hitherto been fruitless, and those most interested, tired of the lorg conflict, have been resting on their arms since 1878.

Dr. Beetiger concludes that neither system of concession nor free trade will answer without modification. He propesses a compromise. Concessions should be maintained, but should not be made exclusive. On cause being shown liberty should be granted to qualified pharmacists to establish themselves in "conceded" districts provided that the owners of the existing concessions are compensated for the injury done to their business. This injury is to be appraised by a bedy of experts, and the compensation is to be paid within 18 months of the opening of the new pharmacy.

This plan seems to meet most of the difficulties of the case. But the fixed tariff for medicines would be still retained, and this alone would make us very unwilling to exchange the English system for the German. We are not told what principles are observed in revising the prices of drugs. But a table is given showing that the average rise in the tariff price of medicines between 1861 and 1874 was 22.2 per cent., that of meat was 155 to 240 per cent., that of the daily wages of artisans 150 to 300 per cent. This places the pharmacist at an immense disadvantage. Another table shows the charges allowed at intervals between 1815 and 1875 for pharmaceutical operations, such as making decoc-

tions, emulsions, pills, or ointments. The average rise between these years was 276 per cent., between 1860 and

1875 only 75 per cent.

This is a very bare indication of the contents of an interesting book. Readers who are only familiar with pharmaceutical or scientific German will find themselves in a "new world of words" in Dr. Boettger's treatise, but the labour of reading will be well repaid by the interest. Probably no Englishman is in a position to give an opinion on the reliability of the book, but this is guaranteed by Dr. Boettger's name and his office of Editor of the *Pharmaceutische Zeitung*.

The Influence of Vivisection on Human Surgery. By Sampson Gamgee, F.R.S.E. London: Churchill.

The Uselessness of Virisection upon Animals as a Method of Scientific Research. By Lawson Tait, F.R.C. B. Birmingham: The Herald Press.

WE have before us two pamphlets on the vivisection problem, taking diametrically opposite views, but both equally deserving of serious attention from the disputants in this controversy, on account of the solid facts brought forward, the scientific tone, and, to some degree, the candour of each writer. The authors are both eminent surgeons of

Birmingham.

Mr. Gamgee's essay was first delivered before the Birmingham Medical Institute. His purpose is to prove that many of the most remarkable accomplishments of modern surgery have been suggested, or rather rendered possible, by preliminary experiments on animals. He instances amputation at the hip joint, paracentesis thoracis, the division at tendo achillis, ligaturing the iliae artery for aneurism, torsion, blood transfusion, and many other operations, and he gives the history of these experiments. On such facts he urges with great force that scientific experiments on animals are indispensable if the art of surgery is to progress, though he does not demand, with some of his rasher brethren, the unconditional withdrawal of all control over surgical cruelty.

Mr. Gamgee's lecture was given in March of this year. It was followed in April by a masterly reply by Mr. Lawson Tait in a paper read before the Birmingham Philosophical Society. It would be impossible for us in anything like the space at our command to give an abstract of Mr. Tait's lecture. The purpose of it is to take the particular instances given by Mr. Gamgee, and to disestablish in every case the claims of vivisection in respect to their promotion. Mr. Tait adduces much evidence to show that each operation discussed was recommended before the date of the experiments named by Mr. Gamgee. Very interesting history he gives, and much destructive criticism; but he does not quite overthrow Mr. Gamgee's position that the art of accomplishing certain operations has been learned by experiments on animals.

The anti-vivisection crusade has done service for which all humane people should be grateful. The demonstration of some well-known fact over and over again for the benefit of every new medical student, but at the cost of cruel torture, was brutal and brutalising. We are heartily glad that such experiments are kept under severe centrol; but only those can desire to see them ended altogether who hold with Carlyle that man is the least worthy individual of animal

creation.

WE have received from Messrs. Burgoyne, Burbidges, Cyriax & Farries "A Record of New Remedies and Special Preparations of Recent Introduction"—a twenty-page pamphlet giving accounts of the properties of most of the recent novelties in the Materia Medica.

Messrs. Root & Tinker, of New York, have published a Druggists' Annual, of which they have kindly sent us a copy. The chief articles in it are coolly crihbed from the Chemists' and Druggists' Diary for this year without a word of acknowledgment. We do not see anything besides in the book which we can crib back to advantage so as to strike a balance.

In the current number of Macmillan's Magazine Dr. Hubbard has again taken up his parable against the pro-

miscuous sale of poisons, and especially against estale poisons under cover of the patent medicine stip. So gested by his article, the Echo of July 5 had a derwing up with this pregnant inquiry: "Why not sist up the rule enforced in Germany which prohibits one druggists from supplying medical preparations combittions of drugs of any description; and does not mit endruggists to supply them, save only on the writh demotify of a medical man?"

### Personalities.

MR. C. R. DARWIN'S will was proved on the pull. personal estate amounted to upwards of 146,00

MR. J. C. THRESH, pharmaceutical chert, Burk obtained the degree of Doctor of Science in the oversil London at the recent examinations.

MR. MARCH, late of Sparkenhoe Street, Leicer, has chased, through the agency of Mr. Brett, thousine Mr. J. Horrax, 11 Market Square, Lytham.

MR. WILLISON, late of Kew, has bought mongh agency of Mr. Brett, of Leicester, the busing of M Holdcroft, of Beccles.

MR. TURNER, of Sheffield, has bought, throu the a of Mr. Brett, of Leicester, the hranch husiness Mr. S of Spalding.

MR. SUTCLIFFE URTHINGTON, rear Mancler, has business, through the agency of Mr. Brett f Leic to Mr. Marsden, late of Snaith.

MR. LINDSAY, of Rochdale, has bought, brough agency of Mr. Brett, of Leicester, the bu ess of Davison, of Barnsley.

MESSRS, WILCOCK & PRATT have purchase the bo of Mr. Pearson, St. John Street, Nottingham. Ir. F. valued for the vendor, and Mr. Brett, of Le ster, I purchasers.

MR. JAMES JONES, 12 Summers Street, Calarthet sold his business, through the agency of Mr. B t, Lei who valued for the vendor, to Mr. Lloyd, of t Mr. Evans, Llanelly, valued for huyer.

MR. F. W. PARKINSON, of Barnsley, has irchast business of the trustees of Mr. Berry, of At issume valuation was conducted on behalf of the puraser Brett, of Leicester.

DR. ALFRED SENIER is contributing to Sanitary Engineer a series of articles on the for drug adulteration in England. We hope among on the experiments made on the vile by of hybrid and the pharmacy will save American pharmacists from persecution.

ON June 6 Dr. de Vrij, of the Hague, mplet fiftieth year of his apotheker life. He wa éted fellow-pharmacists, who presented him with marb of Hippocrates and an album, while the K of Henry sent him the ribbon of the order of the Neth and I

MR. J. B. WOOLLEY, of Carlton Street, eicest purchased the business of Mr. March, Speenhoe Delicester, through the agency of Mr. Bret Mr. Leicester, through the agency of Mr. Bret Mr. Will reside at Sparkenhoe Street, and conductarities as a branch

Some time ago we reported that Mr. F. C. rker, of Dundee, was killed in the Tayport railway coider in the Art British R: vay Co action brought against the North British R: vay Co action brought against the Nort

HER MAJESTY THE QUEEN has accepted m Mr. Macfarlane, chemist and photographer, For illiam 10 photographs of the summit of Ben Ne, taket various points, and showing the meteorologic instruments of the summit of th

in position.

THE Council of the Society of Arts have awarded.

Albert Medal of the Society to Louis P eut "I researches in connection with fermentation, of wines, and the propagation of zymotic worms and domestic animals, whereby the state of the society of the society to Louis P eut "I researches in connection with fermentation, assession of the society of the society of Arts have awarded to the society of Arts have awar

# UNIVERSAL-FILTERPRESSES

of the latest patented Inventions and Constructions
manufactured by

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Engineers and Ironfounders.



(Filt press for Laboratories combined with montejus and air pump.)
System: Wegelin & Hübner.

# Experimenting in the small way frequently leads to great success

wherfore every chemical works, every chemist and pharmacopolist and very technical school should have one of our laboratory or experimental filter presses to experiment with.

ough selli a considerable number of our small experimental filter presses the above "motto" has been as numerous orders for our large filter presses followed after the experiments made with the small ones had given satisfactory results.

Price list No. 782 a.

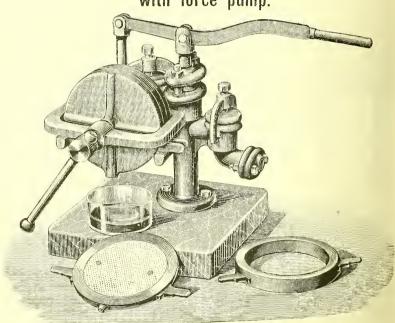
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combined with montejus and air pump.

The wood cut on the first page shows our Filterpress for Laboratories This aparatus serves for the filtration of Extracts, Essences, alcoholic solutions etc. also for the servation of precipitates from liquids in order to secure the solid matter in a nearly dry state icreas the liquid leaves the press perfectly clear. It is provided with a washing attachrat for the purpose of washing the precipitates within the press.

We recommend this apparatus to apothecaries, producers of drugs etc. has a comparatively large capacity and is easily handled. The total filtering area is 100% centimeters and the capacity of the montejus 16 liters.

Class Fb. Small experimental Filterpres with force pump.



System: Wegelin & Hübner.

the Unite

Besides the Filterpresses with montejus and air pump we also build small ex rim Filterpresses arranged as shown by the above wood cut. They consist of a fee pump on which a small Filterpress with one chamber is screwed. The total filtering are is 4 centimeters. The whole is mounted on an iron plate. Three frames of 10, and 11 millimeters thickness belong to the press, of which only one is used at a time.

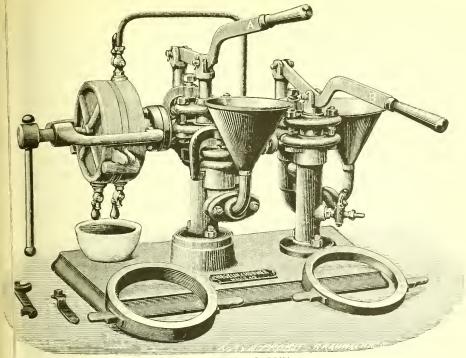
The press is combined with a washing apparatus by means of which the print in the filter chamber can be washed.

Every laboratory or chemical work should have one of the above small experiments.

Filterpresses. On account of its simple construction and easy handling it is a means to prove the most varied substances as to their filtering capability.

Price of Filterpress and pump in Iron

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The above cut shows our experimental filterpress with 2 pumps. The pump with ne leve A is used for pumping the mass to be filtered and the pump with lever B is sed for pumping the liquid for the washing apparatus. Size of filter is the same as that filter lass Fb. Three frames of 10, 20 and 30 millimeters thickness belong to the ress of which only one is used at a time. We beg to recommend these filterpresses special for Laboratories having no special pump or high reservoir for working the ashing operatus.

rice of literpress and force pump in Iron with pump for the washing in Iron £ 10. —
rice of literpress and force pump in Bronze with pump for the washing in Iron £ 13. —

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F. W. Berk & Co., London.
Hill Garton & Co., Southampton.
John Walker & Co., Greenock.

Rummelsburger Act.-Ges. für Anilin-Fabrikation, Rummelsb. b. Berlin. Charles Regen, New-York. Carl Feuerlein, Stuttgart. Bonneville & Co., Paris. Henry Vedles, Paris. Paul Pesier & Co., Valenciennes. Dr. Tscherniace, Paris.

do. A. Max, Paris. K. Oehler, Offenbach am Main. L. Porion, distillateur, Lille. Georg Bourdon & Co., Bayeux. R. Leroth, Genua. Kemp & Co.. Bombay. Julius Rütgers, Berlin. Jos. C. A. Brunner, München. H. Olland, Mechaniker, Utrecht. Königl. Gewerbe-Akademie, Berlin. Alexis Haberkorn, Moskau. C. A. F. Kahlbaum, Berlin SO. Billault Billaudot & Co., Paris. Badische Anilin- und Sodafabrik. Ludwigshafen am Rhein.

Matthiesen & Wichers, New-York.
Carl Neuhaus, Elberfeld.
Gustan Wagenmann, Wien.
Oesterreich. Verein für metallurgische
Production, Aussig a. d. Elbe.
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Science and Art Department, South Kensington, London.

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Landwirthschaftl. Central-Versuchs-Station für Bayern, München.

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Chemisches Laboratorium der königl. Akademie, Münster.

Carlo Kaiser, Milano.

Dr. Ernst Büchner, Pfungstadt.

J. D. Stark, Farbenfabr., Brás, Böhmen.

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etc. etc.

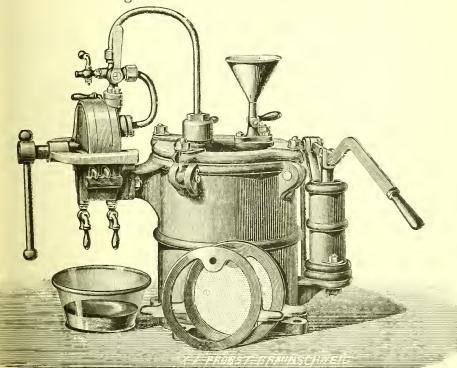
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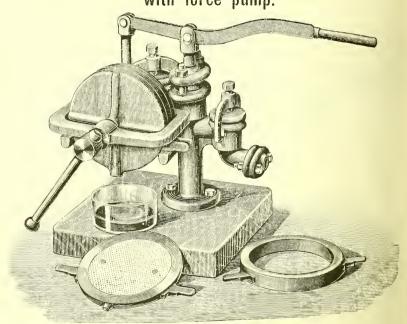
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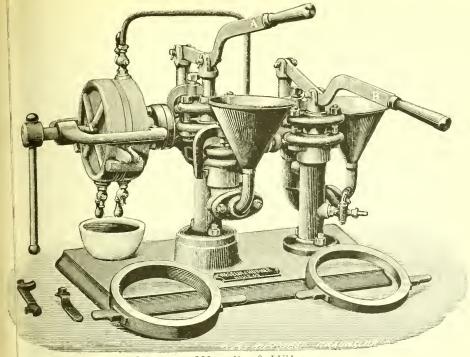
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# Clas Fc. Experimental Filterpress with force pump

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tice of ilterpress and force pump in Iron with pump for the washing in Iron £ 10. rice of ilterpress and force pump in Bronze with pump for the washing in Iron £ 13. -

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> do. do.

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Landwirthschaftl. Central-Versuchs-Station für Bayern, München.

Garside & Co., Hermes Works, Bold near Widnes.

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kgl. Universität, Eslau. Schippan, Galle & Co., reiberg 1 Georg Armitstead jun., liga. Dr. P. Perremond, Staats otheke Bo Zirilli, Bonaccorsi & Lu ero, Mila

(Sicilien). Tallada Hermanos, Bailona,

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## Terms to the Trade

FOR

# ZOEDONE

SILVE MEDAL,

IIGHES AWARD,

LONDO, 1881.

AND

# NATURAL

GOLD MEDAL, HIGHEST AWARD, NEW YORK 1882.

# MINERAL WATERS.











# HI ZOEDONE COMPANY, LIMITED,

WREXHAM:

Ad 25 Abchurch Lane, London, E.C.

ADDRESS ORDERS AND CORRESPONDENCE TO WREXHAM.



GOLD MEDAL, HIGHEST AWARD, NEW YORK, 1882.

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SILVER MEI 1, HIGHEST AWRD, LONDON, 181.

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or custom

# ZOEDONI

IN REPUTED

# PINT AND QUART CHAMPAGNES

IS NOW

# BOTTLED AS WELL AS MAD

# AT WREXHAM.

6s. 6d. per dozen - Small Champagnes 30 per cer
10s. 6d. ,, - Large ,, Discurity 8

Accounts are due on the 10th of the following month, and a cash discount of 2½ per cent's allo off payments made on or before that date.

ZOEDONE IS SENT PACKED IN LATHS, by which annoyance and litter of straw is entirely avoided.

EXPORT ZOEDONE FOR ABROAD requires to be special and some and some

ZOEDONE NOT SO PREPARED SHOULD NOT BE EXPRIE

ADDRESS ORDERS AND CORRESPONDENCE TO WREXHAM

# ZOEDONE

strngly recommended by the Medical Profession and Press, and the recommendation is supported by the general consensus of ublication, as expressed in the Press and in correspondence.

Wat can be more conclusive than the earnest language of IE BUTISH MEDICAL JOURNAL, the recognised organ of the mass medical men throughout the country?

### The Journal says—

"Te would also, from our observations and experience, advise its introduction into clubs, taverr and places of public amusement, where it would judiciously supersede vinous and alcoho stimulants, seeing that it contains, as its name implies, life-giving ingredients in a form easily similated."

to a y Railway Station in England and Wales, to Belfast, Corl Dublin, Edinburgh, and Glasgow.

## EMPTY BOTTLES AND CASES.

When restauration of these advantageously near home, the Zoedone and the cases at 1s. each; laths, and full number, 6d. per set, if delivered at the Works in Wrexham in good dition.

We be that our customers who find it advantageous to send us bottles will send to but Zedone bottles.

Much t uble to ourselves and annoyance to our customers would be saved if empty kages we always advised, and the packages themselves distinctly marked, so as to be dily reconsised. Where 100 cases are received in a day (and frequently the number atly exceeds this), perhaps half of them having no name or mark, it is easy for mistakes happen, and the Company is blamed for what is quite outside its control.

DRESS ORDERS AND CORRESPONDENCE TO WREXHAM.

# ZOEDONE

The Premier

HIGHEST AWARD.

LONDON, 1881.

Non-Alcoholic SILVER MEDAL.

GOLD MEIL.

HIGHEST AARD NEW YORK 882.

MG

BAC

Beverege

SHOW CARDS, Framed and Glazed. COUNTER CARD SHOW CARDS, Enamelled Canvas. CIRCULARS.

SHOW TABLETS, Cardboard. Bills with Name and Adre, The above will be supplied on application to the Company

at Wrexham.

# ULLAGES AND BREAKACE

These should be reported IMMEDIATELY to Wrexham.

THE BOTTLING DEPÔTS at London and Bristol worked admirably 1 ce 20 respects, whilst in others experience showed that they involved disadvalages. consequence of the latter, and in order to maintain the high and uniform curacted ZOEDONE, it has been decided to bottle Pints and Quarts at Wrexham clybeing still bottled by Messrs. Barrett & Co., at Vauxhall, under their coract the Company.

ADDRESS ORDERS AND CORRESPONDENCE TO WREXHAM

BETWEEN THE

# O'AL PRUSSIAN GOVERNMENT ZEDONE COMPANY, LIMITED.

Bussian Spring-Comptoir at Nieder Selters, in the District of Wiesbaden, has appoint for the Sale of the

# MINERAL WATERS

AND

# TIERAL WATER PRODUCTIONS

OF THE ROYAL SPRINGS OF -

NI DER SELTERS,

FAHINGEN,

WELBACH,

INTE

1882.

EMS,

SCHWALBACH,

GEILNAU,

### AND SCHLANGENBAD,

All situated in the Government District of Wiesbaden,

### E ZOIDONE COMPANY, LIMITED, AT WREXHAM AND LONDON,

Consignees for the United Kingdom of Great Britain and Ireland the British Colonies, and the said Company are thereby authorised to hemselves as such to the English public."

### HE ZOEDONE COMPANY

Are also the Sole Agents for the

### KOCHBRUNNEN SPRING OF WIESBADEN.

the poluctions therefrom, the appointment being had direct from the Municipal Authorities of the town.

### SARATOGA WATER.

Agency or this is held direct from the proprietors of the Hathorn Spring, which is the favorite American Aperient Water, and has a larger sale than any other.

ADRESS ORDERS AND CORRESPONDENCE TO WREXHAM

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# NATURAL MINERAL WATER

AND THE

### SALTS, PASTILLES, AND SOAPS PREPARED FROM THEIR

			Т	RADE	PRICE	ES.	RETAIL PRICES.					
	NAME OF WATER	SOURCE.		lamper	Per	Dozen.	Per H of F	amper	Per Dozei			
_			Krugs	½ Krgs.	Krugs	½ Krgs	Krugs.	½ Krgs.	Krugs.	½ K₁		
1	Ems	Kesselbrunnen	23/	16/	6/	4/2	28/	21/	7/6	5/	01110	
3	Fachingen	Krænchenbrunnen	23/ 23/	16/ 16/	6/	$\frac{4}{2}$	$\frac{28}{28}$	$\frac{21}{21}$	7/6	5	2:	
4	Geilnau	*** *** ***	23/	16/	6/	4/2	28/	21/	7/6	5	10 8	
5	Kreuznach					-,-					ize	
6	Seltzer	The Royal Prussian Spring					201	07.1	-10		Boun	
-	Cablemannia	at Nieder Selters .	23/	16/	6/	4/2	28/	21/	7/6	5	11 36	
1	Schlangenbad	Bullon of 10 gallons, 14/6; Retail, 18/6.	23/		6/	•••	28/	•••	7/6		den	
8	Wiesbaden	Kochbrunnen	23/	16/	6/	4/2	28/	21/	7/6	58	eman	
		Bullon of 10 gallons, 16/; Retail, 20/.								,	d.	
			Bottles	Bots.	Bottles	½ Bots.	Bottles	Bots.	Bottles	ts	10	
9	Schwalbach	Stahlbrunnen	30/		8/		36/		12/		i i	
10		Weinbrunnen					,	•••	· 1		2	
$\frac{11}{12}$	Weilbach	Schwefelbrunnen	30/		8/		36/	• • • •	12/ 12/	1	TÎ:	
13	Saratoga	Natron-Lithion-Quelle Hathorn Spring	30/		8/8/3		50/		12/	į.	Į,t	
_	Daratoga	mathorn spring			3/0	L'		-		1	17.00	

These Prices include Carriage of a Hamper or Case to any Railway Station in England; also to Belfast, Dubli Edinbut and Glasgow.

The List shows a very great reduction on the prices at which any of these waters are been obtainable, until the Zoedone Company was granted a concession by the Roya Prus and the Government

All the Waters except No. 8 (Wiesbaden) and No. 13 (Saratoga) are bottled at the respective springs by the Ral Prings Administration, and each vessel bears the Government guarantee as follows:—

Each Krug (stone bottle) has impressed upon it in the making. a Stamp showing the Heraldic Eagle of Prussia the and on the margin the name of the water; the *Ems* stamp shows a Ducal Crown and the letter N in the centre—Clarges Crown and the letters M N.

Each Krug and Bottle bears a capsule with the Heraldic Eagle of Prussia and the name of the contained wir imperent.

Every Cork, whether in a Krug or Bottle, is branded with the name of the water contained therein, excl in a Schwalbach and Weilbach (where the capsule carries the name of the water, and the brand on the cork gives t name Special Spring or source which yields it), and Schlangenbad (which has simply the letter S).

Wiesbaden water is bottled by direction of the Municipal Authorities of the town, whose coat of ms it Saratoga water is bottled by the proprietors.

IMPORTANT NOTICE.—As the empty Krugs are systematically collected and filled with inferior ter, a noting of the above distinguishing marks of the genuine water is very necessary, particularly the brand on the cor

### WIESBADEN THERMAL SPRING

	NOLDAU	TA TA TE	1 TA	INU	טע	OI	LOMB.			- 10	1/2
OCHBRUNNEN	Salt for drinking, in bottles			•••		21/	per dozen.	•••	•••	2/6	en
,,	Pastilles (Lozenges) in boxes		•••	•••	•••	10/	"	•••	•••	1/3	3
,,	Tablets (Gelatine) ,,	•••	•••	***	•••	10/	**	•••	***	1/6	1
	Soap (Liquid) in bottles	•••	•••	•••	•••	12/	"	•••		3/6	1 5
29	Soap (Tablets) in boxes	•••	•••	•••	• • •	28	"	•••			h

EMS Pastilles or Lozenges, Boxes containing 45 at 10/ per dozen; Retail, 1/6

No charge is made for packages, which are not returnable.

Terms are the same as for Zoedone—second page of this circular.

ADDRESS ORDERS AND CORRESPONDENCE TO WREXHAM

ORDERS AS

JULY

### Extracts from Dr. J. MILNER FOTHERGILL'S Brochure

ΩN

## MIN'RAL WATERS: THEIR USE AND APPLICATION."

This le book was written at the request of the Zoedone Company, who will have pleasure in forwarding a copy on receiving an application at their Wrexham Office.

THE RIONAL EMPLOYMENT OF MINERAL

WATERS.

s disappatment in resort to mineral waters is directly want acquaintance with the proper method of using The cice is often determined by other than rational derations If not used at the proper time and season of ualady, s coss is not likely to be attained. Chalybeate must n be taken without preparation in many cases. ese cases here is much to be got rid of before a new log-up of he blood corpuscles, by the exhibition of iron, attain; and this peccant matter must be removed, he proc of blood-building freed from the presence if, before sort to ferruginous waters should be attempted. essay o the Harrogate waters, Dr. Geo. Oliver uses a illustratu, which can be utilised here with advantage. ys that imany cases there is lowered tone and obstructed ons, and that they should be approached by treatment to that should be applied to a slumbering fire, shes cloging the lower part and preventing oxidation of el above em; where, while the barrier to better comn is clear away, and the burning embers are handled are, more uel is added." And, just as it is known in Instration ow much more successfully the fire can be by gety removing the unoxidisable and oxygening ash bere and not after fresh supplies of oxidisable ire added 'so the resort to alkaline, sulphur, or purgaaters show precede the drinking of ferruginous waters." aste produs in the system are the peccant matters, "the the body, n fact—the unoxidisable ash which impedes, rasses, and f present in sufficient quantity, abolishes the on of the her material. The body, like the fire, may ked by it own ash. Consequently, with those whose has bee such that they have lived generously, a pre-Ty course (waters should precede the trial of chalybeate and wh this preparatory course should consist of s upon the satures of each case. Where there is much disturban sulphur waters with purgatives are indiuntil the stem is relieved and the tongue is perfectly In cases chronic rheumatism, the sulphur waters may en with or thout accompanying purgatives. In cases gravel, or lculus, waters containing alkalies, especially and lithia, e indicated; also with or without purgatives, case maybe. Then in many instances such waters be continue for some time after the ferruginous waters hen-in sul quantities only at first. If the liver, is, and oth organs are not kept stimulated by the and alkal, or the intestinal canal kept unloaded by zative water the iron is not well assimilated, and consey only dissges. A more general knowledge of this fact desirable. o long as the tongue is furred; so long as onstipation mains; so long as any bitter taste is ex-

perienced in the mouth on awakening in the morning; so long is iron contra-indicated; or if taken, in small quantities only, and synchronously with the appropriate water, which should be drunk first thing in the morning; and the chalybeate taken after at least one meal has been digested.

Especially is this rule to be observed by females at all ages, but mostly those who experience ill-health at or about the change of life, when debility is experienced, along with a certain amount of disorder of the digestive and assimilative organs. In consequence of the impaired assimilation, the tissues are not properly fed, and the heart and diaphragm, muscles in constant unceasing action, are but imperfectly nourished; giving rise to breathlessness and palpitation on any effort, and thus to sus picion that some organic disease of the heart may be present. Such a condition is common, especially among ladies who take comparatively little exercise, but who live sumptuously, and are subject to much anxiety and worry; and signally uncommon among women who work hard and live sparingly, if monotonously, as in women in agricultural districts. A "season" among fashionable ladies at this time of life causes great disturbance of the health, with marked general debility, which is not to be cured by immediate resorts to tonics, good food, and iron. The "ash" has to be removed first, and with it the tendency to excessive formation of the said ash; and when the system is once more working pleasantly, then the good food, tonics, and iron will be useful and beneficial enough. This is the explanation of the repute enjoyed by sundry waters in cases of female irregularities, which, at first sight, would seem to possess no claim to credit for efficacy in these cases.

When there is much biliary disturbance, and the liver is embarrassed, those waters containing sulphate of soda, with carbonate of soda, or sulphur, are indicated.

When there is a tendency to the formation of matters which are deposited as sediments in the urine, then alkaline waters are certainly indicated; with a purgative water according to the exigencies of each case. In cases where renal calculi or gravel exist, the same plan is necessary, it having been found that potash and lithia possess the chemical property of dissolving uric acid concretions, and, what is still more important, of preventing the formation of such uric acid concretions, when taken habitually, to meet the constant production of this lithic or uric acid.

In cases of irritability of the mucous membranes, whether the air passages, the urinary tract, or those of the female reproductive organs, calcic waters are indicated; lime seeming to possess the property of soothing such mucous membranes.

In all cases the presence of carbonic acid gas in a water adds to its attractiveness. The gas as it sparkles is pleasing to the eye, agreeable to the palate, and grateful to the stomach: the sedative action of carbonic acid, as a local application, soothing the gastric lining membrane when any irritability exists in it—a very common condition. Indeed, where there is derangement

ADRESS ORDERS AND CORRESPONDENCE TO WREXHAM.



of the digestive and assimilative organs, a certain amount of gastric irritability is usually found co-existent, as a consequence or a concomitant.

In cases where there exists much flatulent distension of the intestiual canal, with an accompanying subjective sensation of fulness with some embarrassment of the respiration, from the descent of the diaphragm being impeded, then a very gaseous water is contra-indicated; and a water less highly charged with carbonic acid gas is to be preferred.

In all cases of simple debility or loss of tone, ferruginous waters are good and useful. But where complications exist with this debility, these must be removed by apprepriate measures, and the case reduced, so far as is attainable, to one of simple debility or approach thereto, before the chalybeate is taken. By the observance or neglect of this rule, one patient benefits, whilst another receives no good, or is even made worse, by resort to chalybeate waters.

Such, indeed, are the broad rules to be observed in the use and selection of the various mineral waters; from the more potent of them down to those which, beyond their medicinal qualities, are also agreeable and refreshing beverages.

. . . . By the sytematic use of a water free from all organic impurities, the danger of sickness from polluted water is done away with altogether. The composition of several mineral waters is such as to constitute them agreeable beverages, pleasant to the palate, as well as good and useful for the tissuenceds; the proportion of saline materials in these waters rendering the fluid preferable to plain water for "bathing the tissues," as such use of water is medically denominated. Especially is a draught of water indicated on rising in the morning, to wash the tissues before food is taken. For such purpose mineral waters have much to recommend them positively, as well as possessing the negative advantage of entire freedom

from any poison germs. Such morning draught or a especially indicated for those who suffer from constitution bane of their existence with many persons.

"Alkaline-Saline" water. The best knowed palatable water of this description is that of the Ni Selters, more generally known as "Selter" water It tains a small proportion of chloride of sodium nature; serves the double object of rendering it more agrees to palate, while preserving it in all its original fresh a distance from the spring. Consequently, imitations it been very extensively manufactured by artificial men. Not theless, the natural water maintains its good repute, s is oby all classes, from Her Majesty the Queen of Engid (stable-water it is) downwards.

demand for untural mineral waters: and numerous itatic it have been made from time to time, none of wh, how are equal to the original natural water.

Its composition renders it a most agreeable brage table water. The few minute flakes of other sile of bottem of the earthenware krug, so that the we'doe discolour wines when added thereto. It is a desire drift those who have any tendency to gout or rheumatiespe when there is also some disorder or irritability of e dig or assimilative organs. It is suited either for ble a drinking between meals. It is used all over thoold, any sun or climate, and at every season of the ear. certainly exists no other "dietetic" water for ich teristic and intrinsic value can fairly be put by side annual consumption, without the least effort it rings water in any ostentatious way before the public, is av during the last decade, about three millions and ralf of and bottles.

### SARATOGA WATER. The Hathorn Sprin.

Saline, Aperient.

Hathorn water is now recognised in the United States as the most valuable of all waters, as an alterative and aperient in cases of dyspepsia, constipation, both recent and chronic, torpidity of the liver, and inactive states of the kidneys.

The following letters from dealers vouch for the extensive popularity of this water in the United States, as a gentle and agreeable aperient.

Messrs. P. Scherer & Co., Mineral Water Merchants, New York, state:—

"We have sold this year of HATHORN WATER four times more than of any other domestic water. This is the leading American water, and its sales are rapidly increasing."—Dec. 27th, 1881.

Mr. Chas. Delmonico, Madison Square, New York, says:—
"I have used the Hathorn Water in all my establishments for a number of years, and know it, personally, to be one of the best waters in the market."
Jan. 3rd, 1882.

Messrs. Hitchcock, Darling & Co., Fifth Avenue Hotel, New York, write:—

"We have used and sold the HATHORN WATER for years, and regard it as one of the best waters in use."—Dec. 29th, 1881.

Messrs. H. K. & F. B. Thurber & Co., New York, say:-

"As a palatable and popular Natural Mineral Water, the water of the HATHORN SPRING, Saratoga, has made and held its own in general estimation.... Has continuously given satisfaction."—Jan. 3rd, 1882.

Messrs. E. C. Hazard & Co, New York, writ-"Our sales of the HATHORN SPRING WATER exceed hose

various kinds sold by us. We consider it the most parable an Mineral Water in the market."—Jan. 3rd, 1882.

Messrs. Caswell, Hazard & Co., Druggists, ew Y

"We have known and sold the HATHERN SPRING WEB, of N.Y., steadily from the time the spring was discovered. The wa of the most popular in America, and its sale has increas every it was first introduced."—Dec. 29th, 1881.

Messrs. Park & Tilford, Broadway, New Yo! 839:

"The Hathorn Spring Water has been very favo bly regiven general satisfaction during the several years we is offer sale meantime increasing. We have every reason to ard the Water as desirable, and recommend it."—Dec. 30th, 18:

Messrs. J. H. Breslin & Bro, Gilsey H. e. Ne

We know of the rapid rise into popular favour of the HAHO WATER, and of its present well established reputation. t is the spring of Suratoga, and judging from our sales of it ottled annual sales must far exceed those of any other Amer n water thoroughly conversant with the merits of the Hath Water, pleasure in recommending it everywhere."—Jan. 2nd, 3.

Messrs. Acker, Merrall & Condit, Cham's Str York, and Rue de Chateaudun, Paris, certify

"We have sold for many years HATHORN SPRING W R; the and sales have been increasing with each year, and w now pe its merits by long use of it, both at the spring each ye and at can therefore recommend it,"—Dec. 29th, 1881.

ADDRESS ORDERS AND CORRESPONDENCE TO WREXHA



#### PARENT RECESS LABELLED ROUNDS. SHOP

to aw the attention of

lesire to aw the attention of parties about to open New Establishments, or who contemplate [re-fitting] old iss, to the novel and elegant Bottles.

Average we we appointed Sole Agents, the Stoppering and Finish of Bottles has been very much improved—indeed, as yay per ted—and the sale has already exceeded our expectations. We can supply in twenty-five styles of Labels. imite Shee

ST	O P	ERE	D	F	LI	NT (	GLA	SS			ST	OP	PERE	D	BLU	JE G	LAS	SS.	
Ε,	1	GHT.				N. M. Per Doz.			W. M. Per Doz.		SIZE.	Н	EIGHT.			N. M. Per Doz.			W. M. Per Doz.
nce,	5½	ehes,				13s 6d			15s 6d		Dunce,	51	Inches,			15s 6d			17s 6d
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Hon,	121	Į.				30s 0d		• • • •	36s 0d		Fallon.	124	11			26s 6d 34s 0d			30s 0d 38s 0d
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4 Gall			•••	121	11 11	• • •				29s 0d 33s 0d	 			31s 0d
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JARS RECESS LABELLED, AND FURTHER PARTICULARS, ON APPLICATION. THE PRICES INCLUDE GLASS LABELS ATTACHED TO BOTTLES READY FOR USE.

### ole gents Glasgow Apothecaries' Company,

WHOLESALE AND EXPORT DRUGGISTS,

VRGINIA STREET, GLASGOW.



### PATENT RECESS LABELLED SHOP ROUNDS.

TERMS-NETT CASH.

Orders of £10 value Carriage Paid to any Port or Railway Station in the

United Kingdom.—Not liable for Breakage.

ORDERS EXECUTED WITHIN SIX WEEKS,

### TESTIMONIALS.

"Glasgow, 21st July, 1879.—I have had these bottles in constant use in my branch establishment for over four years, and can confidently recommend them for their clean and brilliant appearance and durability. They are also safer to use than the ordinary labelled bottles, as, from having the name of the contents all in front in two lines, there is much less danger of mistake.—Alex. Kinninmont, F. C. S., Pharmaceutical Chemist."

N.B.—Mr. Kinnonmont has since furnished his South Portland Street Shop with these bottles.

"Melrose, 22nd July, 1879.—Am immensely pleased with these new hand bottles; they are really magnificent: there is no comparison between them and the old shop rounds as regards either price or appearance, and then they will never change, as the labels are literally indestructible.
D. D. DEANS, Chemist."

"GLASCOW, 6th August, 1879.—The new Recess Labelled Bottles supplied by you for my Pollokshields Branch are everything that can be desired, and are greatly admired by all who see them—they are so much superior in appearance and design to the old style that I purpose re-fitting my premises here with them.—WILLIAM BRAY, Chemist, Paisley Road."

"Glascow, August, 1879.—We have much pleasure in testifying to the satisfaction we have had in the use of these Bottles, which have been in our Charing Cross Branch for fully two years. The facility with which they can be kept thoroughly clean, without possibly injuring the Labels, can only be appreciated by a practical experience of their use.—Frazer & Green, Chemists to the Queen."

"Glasgow, 5th January, 1880.—With the Recess Labelled Bottles you supplied me, I fitted up the surgery of the s.s. 'Orient,' lately built on the Clyde, at a cost of £150,000—the largest vessel in the world except the Great Eastern and the most exquisitely fitted passenger ship afloat. I am just in receipt of a note from the Superintendent of Stores and the Surgeon, wherein both express their highest satisfaction with them, and I may add that they are indeed 'perfect models.'—J. Walls White, M.D., Morrison Street."

"Helensburgh, 10th March, 1880.—The Patent Recess Labelled Bottles you sent me for my new shop are magnificent. Their appearance is everything one could magnificent. Their appearance is everything one could desire, and they are so very handy to use, the eye catching the whole label at once. I think every chemist should dispose of his old bottles, and go in for the new ones at once. The Glass Labels you also sent for my drawers are a great improvement on the old ones.—Henry Forewell, Chemist, West Clyde Street."

"Bellshill, 10th March, 1880.—I am much pleased with the Patent Recess Labelled Bottles, and consider them a great improvement on the old style. When I require more bottles I will certainly order them.—WILLIAM LAWSON, Chemist." Chemist.

"Lesmanacow, 10th March, 1880.—I am greatly pleased with the Patent Recess Labelled Bottles which I bought from you. They are very pretty, the corks are easily moved, and very well fitted. The Labels, however, are the greatest improvement, especially for Acids, Oils, Syrups, and many Tinctures which soon efface or destroy the old styles. It appears to me that they cannot get effaced, and will keep their distinctness and beauty for wacs.—J. LINDSAY, M.D." their distinctness and beauty for ages.—J. Lindsay, M.D.

"Newton-Stewart, 10th March, 1880.—I arry n pleased with the Patent Recess Labelled Bottles Ingonly look well, but are very easily kept clean, din opinion in every way superior to the old style; but They only require to be known to command a Tyrsale.—John MacCreath, Chemist."

"GLASGOW, 10th March, 1880.—I have see of Glasgow Apothecaries' Company's Patent Rece Lab Bottles in my establishment. I think they are try handy, ornamental, and convenient, and a gree import on the old bottle with paper labels.—) Wy Chemist, 718 Gallowgate."

"CAMPBELTOWN, 11th March, 1880.—I am hord well pleased with the Patent Recess Labelled !ttles from you lately. They are beautiful to look a attra well pleased with the l'atent Recess Labelled into from you lately. They are beautiful to look a attrathe attention of the most unobservant, and cal gford most laudatory remarks. The writing on the lesis more distinct than that of the old style, being inteclear white ground and in two lines, thus k ingletter in full view, while the value of the coverest as a protection can hardly be over-estimated. are well ground, thus preventing loss from apor Altogether, I think these Bottles are about pert ALEX. BARTO Che

"PAISLEY, 11th March, 1880.—The few lw la Recess Rounds had from you are both handsor and for use, and my old shop bottles cut a sorry ure ( shelves beside them.—James Buchanan, Chest.

"AIRDRIE, 11th March, 1880.—I am mucl lease the Patent Recess Labelled Bottles which I I from The labelling is clear, always bright, and can be r off, tarnished, or destroyed without breaking be gl can recommend them to any one about to fip dru as being a great improvement in style and lish bottle hitherto in use by druggists. — J. II. Chemist.'

"ILFRACOMBE, 11th March, 1880.—I have tostel re-fitted my shop with your Patent Recess La led B and am much pleased with the result. The are admired by all who see them. I consider the far so to the old style in neatness and elegance of a stand the advantage of having an indestructible la to all.—A. SMITH, Chemist."

"WISHAW, 12th March, 1880.—I am muc clease the Patent Recess Perfume Bottles I had f n you Vignettes are quite a work of art, remarkable ike for elegance and taste.—T. B. Macfarlane, Che'st."

GLASGOW, 15th March, 1880.-We have uch pl over those of other makers. The shape of e but style of the stopper is such that they car ease comparative ease, and the arrangement for otetil labels from the action of saids as alkalis is effect. labels from the action of acids or alkalis is erfect, the appearance they present is unique a please Cranstonhill Drug Hall Company."

"Pollokshields, 16th March, 1880.—The atent Labelled Bottles, a wonderful variety of whimay hat Glasgow Apothecaries Hall, Virginia St., y, are decided improvement upon those form

T1:T. AR CÆ spensin ottles. They are extremely convenient in form a casy a rapid manipulation, are unusually legible from the concentration of the letters and the concentration of the rots, and are as a whole ornamental in no small degree, this in eases they are admirably artistic. Disensing a mists must feel it a comparative pleasure to work with the new bottles.

ROBERT BROWN, M.D.,"

ROBERT BROWN, M.D."

"GLAS w, 16th March, 1880.—The new bottles supplied answe my purpose admirably. They are a decided provem on the old style, the name on the glass labeling so tinet and all so neat and clean. They only quire to seen to command a ready and extensive sale.-

"EDINIZERI, 16th March, 1880.—The few Recess Glass belled I tles you supplied are really very handsome. hey are que a set-off to the counter, and command the miration my customers.—Thos. Symington, Chemist."

"GLASG", 18th March, 1880.—I am very much pleased th these cess Labelled Bottles. The old Shop Rounds not to b compared to them either as regards appearance durabilit -John Christie, 356 Dumbarton Road.

"GLASGE, 18th March, 1880.—I have much pleasure in this the great superiority of your Patent Recess belied Sh. Rounds. They are more elegant and durable in the old cinds of bottle, besides having cheapness to ommend em. I am certain that those who once use myll us no others.—WILLIAM PEARSON, Surgeon."

24th March, 1880.—The Recess Bottles are their places. They are excellent value, and introver their places. They are excellent value, and introver they have made in the appearance of the plass far exceeded my expectations.—Robert Hume, mist, 41 (weaddens Street."

GLASGO 25th March, 1880.—I am much pleased with 20 oz. Viette Perfume Bottles I had from you, and endoub hat wherever introduced they will meet with ady sale. OHN JAAP, 268 & 270 Buehanan Street."

CLASCOV 25th March, 1880.—I am greatly pleased the Nev Recess Label Bottles. They are clean and active in pearance, and the distinct character of the renders casily read, and thereby reduces the danger istake.

acids, an he preparations of glycerine (which worked have on he old style of label), they are particularly suited, the label being so completely protected. Their rous mers are so obvious, that I have little doubt will come to general use before long.—P. M'FARLANE, mist, Hill d.

LOYDOYD RY, 27th March, 1880.—The Patent Recess willed Bottl with which I have furnished my shop have satisfaction. As shelf furniture they are fided imprement on the old style. I have been at the ness for seen years, and in shop-fitting I know of less for sieen years, and in shop-fitting I know or ing that h been introduced which produces so great provener. For their finished and effective appear, indestructionally of label, and uniformity of make, and costin little more, I consider them worth treble price of the d bottles; they are very attractive, and I frequently b hand one of them to a customer for intended many who decorated in to see them says Irequently hand one of them to a customer for intention. A micial man who dropped in to see them says are very sterior to anything he has seen. To many are accust led to have their wants supplied out of clooking be less with ragged labels, the new bottles will a more excel idea of their contents. The destitute that are receiving relief in various forms, but the bulk of t drug houses require speedy relief in the 16 Patent beess Labelled Bottles.—Henry Taaffe, mist, Water Place." mist, Water o Place."

5 ROMOLA ERRACE, NORWOOD ROAD, TULSE HILL, don, S. E., h April, 1882.—I have much pleasure in grather the decess Labelled Bottles, you supplied to have given e every satisfaction. They are much easily reaches the old style of label, much more aliversally admired. The Bottles are also of convenient shape. I have lately seen y imitations ut none to equal them. wimitations ut none to equal them.

H. SENIER, Chemist."

West Chis HURST, 12th April, 1382.—I am very cess Labelled Bottles supplied by you, and

eonsider this system of labelling far superior to the usual kind. There is no comparison in my mind between these and the ordinary Gold Labelled Bottles.

Lewis Wine, Chemist."

"CHURCH STREET, CREWKERNE, 12th April, 1882.—The Reeess Labelled Bottles supplied by you are in all respects to my satisfaction, and are much admired by my customers. to my satisfaction, and are nuch admired by my customers. A local medical gentleman also who has expressed to me his determination to refit his surgery also intends obtaining his Bottles from you. It gives me much pleasure to be able to bear my testimony to the excellence and utility of your specialite, and you may consider yourselves at liberty to make use of this letter in any way you deem advantageous.—
O. W. Catford, Chemist."

"Hebburn, 12th April, 1882.—I must say I like the Bottles very much. Every stranger who comes into my shop admires them. I intend to have my shop entirely fitted with them.—F. W. PITTUCK, Chemist.

"SMETHWICK, 12th April, 1882.—The Recess Labelled Bottles are very satisfactory, and as in price they compete so successfully with the Ordinary Shop Rounds, they are in my opinion the Bottles of the future.

R. D. Gibbs, Chemist."

"Dewsbury, 12th April, 1882.—I am highly pleased with the Bottles you sent me two years ago. I think they are a decided improvement on the old-fashioned Shop Rounds.—A. Waterhouse, Chemist."

"Cork, 12th April, 1882.—The Recess Labelled Bottles give every satisfaction, and are much admired. The stoppers are well fitted. At an early date I intend getting my Dispensary Bottles from you, I think the style of Bottle and the printing of label unexceptionable.

John Blair, Chemist."

"Galashiels, 12th April, 1882.—It is now two years since I got my establishment fitted up with the Patent Recess Bottles, and I am very much pleased with them in every way. They always look clean, the label being so neat and distinct, and they are admired by everybody.

A. Noble, Chemist."

"Sanguhar, 12th April, 1882.—The Recess Labelled Sanythar, 12th April, 1882.—The Recess Labellet Bottles I had from you some months ago have given me the most entire satisfaction. They present a clear, bright look, and many of my customers have remarked the greatly improved appearance of my shop consequent on their introduction. The round, flat-topped stopper is a good feature of these Bottles.—James Brown, Chemist."

"PORTREE, 12th April, 1882.—We are highly pleased with the Reeess Labelled Bottles supplied by you. They are far superior in every respect to the old style, and in our opinion no Chemist and Druggist should be without them.-D. Duncan & Co.

"Denny, 12th April, 1882.—I am very much satisfied with the Recess Labelled Bottles and Ointment Pots had from you. They are a marked improvement on the old style of Bottle, and from the construction of the label it is not only impermeable to all kinds of liquids (acids not excepted), but always retains a new appearance.

Walter Laidlaw, Chemist."

"17 Great Western Road, Glascow, 12th April, 1882.—I have much pleasure in expressing my satisfaction with the Recess Bottles which you supplied for the Dispensary counters of my establishment. The Bottles are strong, uniform, and well made. The labels are elegant, distinct, and indestructible. For Shop Bottles these are the necessary requisites, and they possess them all.

[John M'MULLAN Chemist."] JOHN M'MILLAN, Chemist."

"Oban, 12th April, 1882.—Referring to Recess Labelled Bottles, Dr. Campbell as well as myself are highly pleased with them, and I think they are an improvement on the old style of Bottle. They set off the appearance of a Chemist's shop admirably.

Peter C. M'Kerchar, Pro Dr. N. Campbell."

"140 Castle Street, Glasgow, 12th April, 1882.—I have now had the Recess Labelled Bottles in use for three months, and I have much pleasure in testifying my entire satisfaction with them. I have found the Bottles to be well and uniformly made, with carefully fitting stoppers. They are easily kept clean, and always present a bright and chaste appearance. In point of finish and economy they far surpass the old style of Shop Rounds.—Alex. C. Boothman, Chemist." Chemist.

"Medical Hall, Sutton, St. Helen's, 12th April, 1882. Your Patent Recess Labelled Bottles, with which my —Your Patent Recess Labelled Bottles, with which my Pharmacy is entirely furnished, command every satisfaction, the writing being all seen at a glance, distinct in two lines, on a prominent ground, thus keeping every letter in full view; and covered with glass is a great protection. Being intact, they are never destroyed by the contents of the bottles, as often seen in Tinct. Ferri, Tinct. Benzoin, &c. They always appear new, and will never lose that showy, clean, and attractive appearance, which frequently demands my handing one for inspection over the counter to satisfy my handing one for inspection over the counter to satisfy customer's curiosity. I am very much pleased with them, and glad 1 did not go in for the old style.

H. Brumwell, Chemist."

"Lynn Street, West Hartlepool. 13th April, 1882.— I am pleased to say I like the Recess Labelled Bottles I had from you very much; they are a great improvement on the old-fashioned Bottles, and quite an attraction to the shop. JOHN BREWIS, Chemist.

"BAILDON, NEAR LEEDS, 13th April, 1882.—With regard to the Recess Bottles and Jars, which I had from you some time ago, I am perfectly satisfied with them in every respect. I had close upon 300; they are perfect, and make a uniform and brilliant appearance—especially the blue Syrup Bottles and the Jars. The round topped Stoppers, which I at first objected to, are rather an advantage than otherwise. Taking them as a whole, they have been, and are, a splendid advertisement for me, since they are very much admired both by the public and by medical men, some of whom have exa-mined them most minutely.—H. ROBINSON, Chemist."

"Paisley, 13th April, 1882.—After twelve mouths' use and experience of the Recess Labelled Bottles which I had from you, I am glad to say that I am very well pleased with the same, and consider them a decided improvement on the old style of label.—Keith Mackie, Chemist."

"20 Castle Gates, and 131 Coleham, Shrewsbury, 14th April, 1882.—I am very much pleased with the Recess Labelled Bottles received from you two years ago. The labels retain their brilliancy, and are in all respects much superior to the old shop Rounds (with gold labels). Should I have occasion to relit, or to increase the number of my stock bottles, I shall certainly send you another order.— HENRY PATTISON, Chemist.

"253 CLEETHORPE ROAD, GRIMSBY, 14th April, 1882.—I beg to inform you that I am very pleased with the Recess beg to inform you that I am very pleased with the Recess Labelled Bottles with which you supplied me. Their appearance is very elegant, and presents a combination of showiness and good taste. By gaslight especially the labels are resplendent. Their superior legibility is another great point in their favour. Customers, chemists, and surgeons alike express their admiration.—W. D. Mason, Chemist.

"Sowerby Bridge, 14th April, 1882-Of course you know I furnished my shop entirely with your Recess Labelled Bottles, and having a few to spare sent them to my branch shop, the appearance and style so disgracing the old ones that I at once determined to order another lot, and I think they are about as cheap as the old style, especially when the labels are taken into consideration.

M. F. Walton, Chemist.

"31 Titwood Place, Strathbungo, 14th April, 1882. I have just had supplied to me (by the Glasgow Apothecaries' Co.) a number of Patent Recess Labelled Bottles, with which I am highly pleased. The labels are neat and distinctly written, cannot get soiled, and resist the action of chemicals, which usually destroy the ordinary label. I have much pleasure in recommending the Bottles to those shout to fit up now catablishments over fit old premises. about to fit up new establishments, or re-fit old premises.— HUGH LAMBIE, Chemist."

"ALEXANDRA ROAD. MANCHESTER, 15th April, 1882.—I am highly pleased with Recess Bottles; they always look clean, and are admired by all who see them.—J. L. MORRIS, Chemist.

1 Crescent Terrace, Cheltenham, 17th April, 1882. The Recess Labelled Bottles supplied to me by the Glasgow Apothecaries' Co. are superior, both as regards finish and appearance, to any dispensary bottles I know.

ROBERT KIRKLAND, M.B. and C.M."

"Renton, 18th April, 1882.—Regarding Recess Bottles received from you, I have much pleasure in stating that they have given me entire satisfaction. Their appearance is handsome, and they give a bright cheery look to the shop.—D. MITCHELL, M.D."

"Lenzie, 18th April, 1882.—I have very much in stating I am extremely well pleased with the Labelled Bottles I had from you. They are much by everybody. For appearance there is no concluded between them and the old style of Bottles. Once belief always labelled, alway clean, and no ragged look about the should strongly recommend them to any personsport to fit up or refurnish.—J. W. Pettigrew, Chemist.

"GESTO HOSPITAL, 19th April, 1882. — The Recess Labelled Bottles I am highly satisfied with. The are in more ways than one a great improvement upon eplain old-fashioned Bottle, and should soon take its place very where. In the shape of the stopper, in the Recess and in its general smartness of appearance, then bottle is decidedly superior to the old, and, indeed, I do t think there can be any comparision between them.

A. DUNCAN FRAS M.D.

"285 Duke Street, Glasgow, 21st April, 2.—The Patent Recess Label Bottles supplied to us by yr house for our new premises have fulfilled our expectatio in every way. In appearance they are most attractive, e easily kept clean, while the lettering of the labels ing very distinct and occupying the front part of the Be es only renders impossible the mistakes in reading so equently occurring with the old style of label. Altogether garding them both for utility and ornament they are distinct improvement upon the old Shop Round, become a source of pleasure and profit to any shopkeeper who desis to add to the completeness and attractiveness of his est ishment at a comparatively trilling cost, by replacing his ok ashioned Shop Bottles and their very destructable label with the elegantly finished Recess Label Bottles.—J. & RRODMAN, Chemists.

"49 REFORM STREET, DUNDEE, 27th April, 32.—We much pleased with the Recess Labelled Si Round (500), we had from you two years ago. The ne abels are beautifully distinct and clear, as well as perment; they are simply and securely attached to the Bottle which in their finished state, are no less ornate than useful and after years of active service continue to look as go as new. They are much admired by all who see them, it give the greatest satisfaction to those who use them Cumming Brothers, Chemists."

"THE PAVEMENT, HIGH STREET, SOUTH N( VOOD, 2nd May, 1882.—We are well pleased with the Rec. Labellet Bottles supplied to us by you. - Cullen & Co., emists.

"City Parish Dispensary, Glascow, 6th by 1802-1 have much pleasure in expressing the very avourable opinion I have formed of the bottles with the Pent Recognition. Labels, supplied by your firm to the Glasgowity Para-Dispensary. I find the labels are a great i rovement on the others, they are always so distinct and usily real and being so well protected from corrosive sub ness, the are of great advantage in a dispensary such a his, when the bottles being very frequently in use, the ol labels sor got obliterated and destroyed. The round sto ers, which at first I had objections to, I now find are ever hore easily handled than the square tops, and prefer them
JOHN R. PEACOCK, otherary.

"DUMBARTON, 1st June, 1882.—The Recess I selled Sho Rounds lately supplied for my branch established, pleased with, not only do they look so uch bette than old styles, but the label is so distinct as ell as inde-structible, whiles the storography is perfect. I shall the structible, whilst the stoppering is perfect—a shape of stoppers (after using bottles) I really like be or than the square-headed ones.—Colin Campbell, Chem.

"71 ST. VINCENT STREET, GLASGOW, 12th nc, 1882. The Recess Labelled Shop Rounds (over 500) th which have re-fitted my premises, I am in every with. They have added very much to the bearanced shop, which I shall have much pleasure in sb party intending to refit or commence business William Walla, Chemist

"Westminster College of Chemistry an Pharmact Trinity Square, London, S.E., 15th June, 2.—Havin over 1000 of your Recess Labelled Bottles in c stant use it our Laboratories, we have small places in cing we ar our Laboratories, we have much pleasure in ring we are quite satisfied with them. The labels on the bottles required to be continually renewed while you recess Labelled Bottles (requiring no relabellity saremuch time, and always a process that the same than the same t Recess Labelled Bottles (requiring no learning and always present an elegant appearance) nucle admired by visitors and students.

WILLS



Upon receipt of 7s.

Sample Case will be forwarded, containing one dozen assorted pint Fruit Champagnes.

Upon approval, and for future orders, the name of the nearest Licensed Bottler will be given upon application to the above.

quickly Champagne Bottles. It is quic is easily released for opening, AGENTS FOR in right-hand side drawing SOLE WIRE in C cork girl, shown or. સ્ર boy securing ≂ by For s



rto, the English Refreshment Bar has been astricl in its variety of pleasant-flavoured In the United States this matter is thoapprented, and much ingenuity has been to dise cunning flavours and attractive ocace he fancy of the public at large. In on Chapagnes we have, indeed, a variety ous flaturs, and all are of a character sure upon e desire of those who once begin to The are temperance drinks, but they special belong to the temperance party. upy | feetly neutral ground, and are caloccasically to be used in connection with

ENT? STA HALI

oquen writer, dealing with this subject, ed recelly-

"Shandygaff seems to be thought vulgar, though with a big piece of ice in it, in a pewter, at Lord's, few things can be more 'utterly supreme.' Drink beer we cannot, and of shandygaff we are ashamed, while all drinks into which wine and spirits enter are liable to the misfortune of defeating their purpose. Of lemonade, however well compounded, no one can perhaps drink very much, while a little any of the ordinary effervescing waters goes a long way, and seems chilly and unsociable. What is needed then is a new drink, as picturesque in its amber or purple deeps as a draught of vintage that has been cooled in deep delved earth.'

Surely we have here a distinct anticipation of these exquisite Fruit Champagnes. They answer fully to the above description, and have besides some special merits of their own, which must commend them to all who once become acquainted with their fascinating flavour.

these guted for the Manufacture, and every information given. Those having a Mineral Water te can I duce any of these splendid Drinks, and thus add an additional branch of business to the Minel Water Trade, leaving a much larger profit also.

### THE "LONDON-MADE"

# SYPHON OTTLE

SOLE MANUFACTURERS.

# BARNETT & FOSTER, LONDON, N.



The high reputation this Bottle achieved is due to the fact oits bein every particular the most perfe yet in duced, and when compared who ther is the market, it stands pre-eminet.

It is the most simple its working parts, there e the liable to get out of order

The most easily pen the slightest pressure of the bold being sufficient.

It produces a mon high charged gaseo's wa than is usually obtained om Sylvid

It compares most favo ably in appearance with any,

Us its

ithe Publ R, and n at highly ,

elagus or

ad brush

And, the metal top bein entir II. from lead, the prejudice alinst drinks is at once removed, as

O of this ] The Liquid passes Pure Tin oily.

PRICES, QUART SIZE PINT SIZE

24s. per doen. 22s.

Tops nickel-plated, from 5/6 extra per dozen. Tops silver-plated, from 9/0 extra r dozen high WHITE, BLUE, GREEN, OR AMBER.

OBSERVE! Those Chemists who are not Mineral Water Manufactures care supplied with a few dozen Syphons, and have them filled at the nearest rinufactions at prices to leave a good profit when sold retail. Whatever amount is avested in this well-known Syphon ("LONDON-MADE" Registered Trade Mark) out, their value not depreciating after years of use.

# CODD'S PATENT

# \*SODA+WATER+BOTTLE\*

BARNETT AND FOSTER,

T, ORSTON ST., SHEPHERDESS WALK, LONDON, N.

To com all Export Orders must be sent. The Home Orders may be sent through any of the Licensed Bottle Makers

This Bottle is the most efficient of any yet invented for containing Aerated Waters, and is, above all, the one most highly appreciated by the Public.

As compared with other Patent Bottles it stands preeminent—there is no taste from rubber, the stopper being a Glass Ball, which is, by internal pressure, kept firm against the elastic collar in the neck. The Stopper does not fall into the Gaseous Waters, so that the Water retains its full Gaseous properties when emptied into a tumbler.

### THE SPECIAL ADVANTAGES

Of this Bottle over other Patents may be thus briefly enumerated:-

s pre red by the Public to all others. It is more easily and safely opened.

pper everlasting, and never requires renewal. It is more quickly emptied.

will gre a more highly charged gaseous water than any other.

simpssible for fungus or dirt to form round the stopper when the bottle is empty.

pper des not chip, which would be dangerous to the consumer of the drinks.

tles as not starred by the stopper knocking against the sides.

pper innot cause accidents by shooting out.

m the peculiar construction they are much stronger.

ost effectual for standing the humid climates of hot countries, as but a small portion of the rubber is exposed when the bottle is empty.

xpos to the water, when closed, the minimum of rubber.

ove a as an Investment it is perfectly safe, from the high appreciation in which it is eld by the Public, they knowing that the waters contained in these bottles are sperior in quality to all others.

# SODA WATER MACHINEN BARNETT AND FOSTER

23T, FORSTON ST., SHEPHERDESS VAI

AWARDED for SODA WATER MACHINERY and ACCESSORIES

BARNETT & FOSTER, Forston Stree Lond











PHILAOELPHIA, 1876.



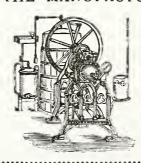
LONDON, 1862.

LONDON, 1873-74. FIRST

PARIS, 1867-78. VIENNA, 1873. PHILAUELPHI. AWARD: SYDNEY: 1879-1880.

FOR THE MANUFACTURE OF

Soda, Potass,
Seltzer, Carrara,
Magnesia,
Tonic Water,
&c.



Lemonad,
Ginger Beer, Ornge
Nectar,
Champagne ider

CHEMISTS contemplating the manufacture of Aerated Water wo well to consult us: we are glad to give advice on any matte con with this business, and to refer to very many establishmens a carried on in conjunction with the Drug Business.

Our Machines are universally adopted throughout the World, for the manufacture of all k ds of Drinks, whether in Bottles, Syphons, or Counter Fountains. There are, in England ale, ov factories where our machinery is in use, besides many thousands in India, China, and the planes are the simplest, safest, and cheapest for the purpose, and produce a highly charged gaseous ter, from the metallic or foreign contamination, at a cost almost nominal.

All our Machines have a Gasometer, in which the gas is expanded and purified: this forms ant necessity for ensuring purity of production, it also removes all possibility of accidents be explosed avoids the necessity of complication—advantages which we consider of greater importance that the second a few inches of floor space.

Machines from £30 upwards

Our valuable Book of Recipes and Instructions accompanies every Machine, of the unskilled can at once produce Waters of the highest class by the information trein

Illustrated Catalogue giving all preliminary information forwarder free.

ESI

g, s production, and agriculture have been greatly

J. ICKISSON, of marking ink fame, has brought scheme whereby any town can get itself until uninated with the electric light for nothing, ickis has patented a number of columns to take the of lip-posts, and also attachments to the present designed to receive advertisements. He would more than cover the cost of the light. It is would more than cover the cost of the light. It is all himself of such a medium, and he knows who wild do the same. The scheme is, of course, blet as or oil, as well as to the electric light.

### Toilet Nobeltics.

HITE HELIOTROPE PERFUMERY.

se s of toilet articles Mr. Rimmel has perfectly catching and retaining the delicate but added to the white heliotrope. We have seldom act a reproduction of the natural fragrance form. As a sachet or a handkerchief perfume by trope is charming and very lasting. Mr. also kes toilet water, elixir for the teeth, beauty ap, all à la Heliotrope blanc. The whole case makes a pretty perfumery present.

#### DOD VIOLET TOILET VINEGAR

product which cannot be more accurately at the tis in its title. A refreshing combination of least the tis in its title. A refreshing combination of least tis in its title. A refreshing combination of the specially blended, and it will be especially hot and crowded assemblies. The perfume least in prefity-labelled bottles with sprinkler-stoppers. The perfume of Messrs. Whitaker & Grossmith.

### THE O. S. TOOTH-BLOCKS.

ticle, ich is making its way very successfully, has in previsly noticed in our pages. The mysterious are the of the makers "Oscar Sutton" & Co., of We not know whether they have any other tion. he blocks are small cakes of firm cons, com unded of materials which make a very e der frice, and which, having been tested by authories, are pronounced of value for the purposes aing an reserving the teeth. The proprietors pride ves on he fact that their product contains neither n, nor hey, nor acid of any sort, all these ingrehaving, appears, been condemned by some or by all profess 1. The blocks seem to clean the teeth glly we and the convenient style in which they are ed adds their attractiveness. The 1s. blocks are in d metal exes, those at 2s. 6d. in glass boxes, or, as noprietor more poetically state, in crystal toilet a. This m also issue packets of appointment cards pocket, e week on each folded card, with indicafor every alf-hour throughout each day. These are 3s. per d, with the object of helping to advertise & tooth ocks.

### ROSALINE.

p and intrically good preparation, a liquid dentifrice d Rosaline, which has lately changed proprietors. It case and in a sprinkler bottle. It has an flavour, and produces a slight froth when spectable rate of profit is allowed to

chemists. We believe Mcssrs. Burgoyne, Burbidges & Co. supply the article wholesale.

PAUL & Co.'S INDIAN AROMATIC TOOTH-POWDER.

WE have also to acknowledge the receipt of a bottle of tooth-powder labelled as above. Messrs. Paul & Co. are a native firm of druggists in Calcutta, and with the bottle they send us a circular with a large number of native testimonials signed by gentlemen with very decided Hindoo names, and a number of them. as we suppose, in Hindustani. Some of the testimonials are brief and to the point. For instance, Abdul Mazid states: "Your tooth-powder has proved much beneficial." The powder has a rather warm aromatic taste with a moderate flavour of camphor. It cleans the teeth effectually, and freshens the breath most agreeably."

#### TOILET PHARMACY.

THE following appears in an American weekly paper:

"MAMMARIAL BALM restores and develops the bust. Warranted sure and safe. Price one dollar. May be obtained," &c.

Is it for internal or external application? Is it "to be rubbed into the roots every right"? And was it discovered on the inaccessible slopes of the Andes? What with antis fat and lean, blooms, blancs, hair producers and destroyers, dyes, bleaches; corn, wart, and pimple eradicators; and special applications for nails, hands, lips, cheeks, eyebrows, and teeth, besides such gross mechanical contrivances as nose-machines, wigs, and wooden legs, we are of opinion that if Venus herself were to "revisit the glimpses of the moon" she wou'd be accounted a very so-so sort of party. Our pharmaceutical discoverers could produce something better from any back street.

### foreign and Colonial.

CANES and umbrellas, with an ear-trumpet ingeniously fixed in the handles, are now sold in New York at \$25 each.

EXTRACT OF WINE.—At the Milan Exhibition a "Vino solido" was introduced. It was in the form of a paste, which, when dissolved in a glass of water, was said to yield instantly a generous wine of good appearance and bouquet.

AMERICAN PATENT MEDICINES.—The Proprietary Article Dealers' Association, of the United States, estimate that their trade have spent \$100,000,000 in advertising the last 20 years, say 1,000,000l. sterling per annum.

ARTIFICIAL CLOVES.—The Madras Mail, quoted in the Tropical Agriculturist, says that several bags of cloves received in London from Zanzibar were lately found on arrival to contain artificial cloves neatly manufactured by machinery, irstead of the real spice. These cloves were made of soft deal, stained a dark colour, and soaked in a solution of essence of cloves to give them the required scent. They were traced as having been imported into Zanzibar from America.

THE PHARMACEUTICAL SOCIETY OF THE PROVINCE OF QUEBEC held their twelfth annual meeting at Quebec on June 13. The society had a sum of 233 dollars to their credit. Mr. H. S. Evans, of Montreal, appears among the gentlemen elected to the council. Mr. Alexander Manson is the President, Mr. H. F. Jackson, of Montreal, and Mr. R. McLeod, of Quebec, 1st and 2nd Vice-Presidents. Messrs. Ambrose Ganvrean, H. R. Gray, R. McLeod, H. F. Jackson, and the President form the Board of Examiners. All candidates for the licentiateship are required to have attended certain courses of lectures before examination. The examinations are held in English and French.

#### MISCELLANEOUS FORMULÆ.

SOLDER FOR METAL, GLASS, AND PORCELAIN.—A soft alloy which will adhere so firmly to metallic, glass, and porcelain surfaces that it can be used as a solder, and which is invaluable when the articles to be soldered are of such a nature that they cannot bear a high degree of temperature, consists of finely-pulverised copper or copper-dust, which is obtained by shaking a solution of sulphate of copper with granulated zinc. The temperature of the solution rises considerably, and the metallic copper is precipitated in the form of a fine brownish powder. 20, 30, or 36 parts of this copper-dust, according to the hardness desired, are placed in a cast-iron or porcelain-lined mortar and well mixed with some sulphuric acid having a specific gravity of 1.85. Add to the paste thus formed 70 parts (by weight) of mercury, constantly stirring. When thoroughly mixed the amalgam must be carefully rinsed in warm water to remove the acid, and then set aside to cool. In 10 or 12 hours it will be hard enough to scratch tin. When it is to be used it should be heated to a temperature of 375° C., when it becomes as soft as wax by kneading it in an iron mortar. In this ductile state, the Scientific American says, it can be spread upon any surface, to which, as it cools and hardens, it adheres very tenaciously.

### Pepsine Lozenges.—

Pure pepsine .						4 dracbms
Muriatic acid .			• •	••	• •	45 grains
Distilled water .			• •			15 ,,
Glycerine						$1\frac{1}{2}$ drachm
Tragacanth power	ler					2 drachms
Red Saunders .		• •	• •		• •	8 grains

Mix and divide into 50 lozenges. Dose, five per day, to be taken with some water.

Cosmetic. — The Pharm. Zeitung has the following formula:-

White wax		• •	• •			• •	50 grammes	
Beef tallow							100 ,,	
Oil of bergame	ot						6 ,,	
Oil of cassia							I6 gtt.	
Oil of thyme				••	• •		8 ,,	

A yellow colour is produced by tinct. of saffron or tinct. of turmeric, a brown colour by burnt umber in oil, and a black colour by animal charcoal ground in oil.

GREASE ERADICATOR. - The following compound for general use, with some perfume, would meet with a ready

		UZ.
••	 • •	 4
	 	 2
	 • •	 1
	 • •	 7
	 	 3
	 • •	 2

Soft water enough to make one gallon. Boil the soap in the water until it is dissolved, and then add the other ingredients.

ANOTHER STARCH GLOSS .- Add to one quart of wellboiled (maize) starch

				Oz.
Water glass	 		 • •	 3
Gum arabic	 	• •	 	 I
Loaf sugar	 	• •	 • •	 2

Use a polishing iron.

HOP BITTERS.—The following is given as the composition of hop bitters :-

Tiucture	of hops	3 .					• •	$\frac{1}{2}$ oz.
,,	of buc	hu		••		• •		3 drachms
"	of sene	ega						3 drachms
Podophy	llin (dis	ssolved	in	spirits o	f wine	e)		½ oz.
Tincture	of cocl	ineal						20 drops
Distilled	water							1 pint

Mix.

Canadian Journ, Med. Sci.

TAMARIND LOZENGES .- Dr. Hager has late po the following formula for what he calls "Sacclina rindinati lenientes." The object is evidently timi Tamar Indien, though the characteristic chocate is omitted:-

[J1 15.

...0

Cmme

. 10

. 3

8 35

35

3

fl. oz

240 3ij.

312

.. 41

Pulpæ tamarindorum	 	
Sacchari albi pulverati	 	
Sacchari lactis pulverati	 	
Glycerinæ puræ	 	

Mix and apply a gentle heat, with stirring, vil sistence of a soft extract is obtained. Then min-

```
Foliorum sennæ subtillissime pulveratorum
Fructus anisi vulgaris.. ..
Elæosaccbari citri
Acidi tartarici
```

To make a mass which can be worked by the gen which cut 100 oblong cakes about 3.6 cemetre 2.2 centimetres broad, and 1 centimetre ick. cakes, sprinkled with water, are to be rolled a s quantity of the following powder:-

Tartari depurati	 	 • •
Sacchari albi	 	 
Sacchari lactis	 	 
Tragacantbæ	 	 
Acidi tartarici	 	 
Ligni santali rubri	 	 

The cakes are then to be set aside in a wal place hour to dry, and afterwards covered with tinil.

CHEMICAL FOOD.—The usual formulæ for he at said to be disappointing. T. D. McElle (B sends the following to the Oil and Drug No, con he says, partly on the work of others and pally on

Acid pho	sphor	ic, sp.	gr.1.7	5 (abo	at 75 %	6)
$\mathbf{A}\mathbf{q}$ ua	• •	• •	• •	• •	••	••
Dissolve in this by	y hea	t of a	water	-batlı-	-	
Quicklim	e	• •		••	••	••
When the solution	n is c	omple	tc add	gradu	ally—	

Soda carb. cryst.	 	
Potass carb., gran.	 	••
Dissolved in aqua	 • •	••
To the cool solution add—		
Aq. aurant. flor	 • •	

Aq. q. s. ad Reserve 12 oz. and to remainder add-Pulv. cocci ..

Sacchari, gran. .. Shake occasionally until dissolved. To the reservel tion at Ferri sulph. pur. .. . .

.. ..

Shake occasionally for an hour or two, express quicklibrough the syrup, mix well and filter through paper.

OLD GOLD COLOUR.—A fashionable cour in year, especially for feathers, is known | Vicil Julliard, in an article in the Union Phar wenting that this colour is obtained from a prepara on kno trade as mandarine, which is a preparent of orseille (a product obtained by macerati red ) urine), indigo carmine, and the aniline dy Prange indigo carmine is used only in very sm propo give the tarnished appearance, and the lange used in quite small quantity to make he col permanent. Feathers to be dyed this cour are first treated with a solution of salt of so. I, oxali sulphuric acid.

TO CLEANSE A SOILED CHAMOIS I THER. solution of weak soda and warm water, b plen soap into the leather, and allow it to rem in soa hours, then rub it well until it is quite an. A rinse it well in a weak solution compos of war soda, and yellow soap. If rinsed in was only it hard when dry, and unfit for use. The mall qu soap left in the leather allows the fin particl leather to separate and become soft like . Aft wring it well in a rough towel, and dry ickly; it about and brush it well, and it will come s better than most new leathers.

htield.

## Crade Notes.

R. TMAN, wholesale druggist and baking-powder unactor, &c., has recently removed from 10 Belvoir to Wellford Road, Leicester.

sa as Company have declared an interim dividend to the rathful oper cent, per annum on the ordinary shares he had ear ending July 30, 1882.

n.G. DE LUCA, agent for Claude Reynaud's essential and der in French serew-glass capsuled bottles, &c., remove from Jewin Crescent to 6 and 7 Long Lane,

ESSRS, AMUEL LAMBERT & Co., of 137 Fenchurch et havaken the sole agency for essences of the brand welli squale & Co., of Messina.

Basin all Street, E.C., where they will be glad to see when wants to do a business in drugs and sundries autipo an pharmaeists.

s, of Artillery Lane, Bishopsgate, and Haekeld the annual dinner at the Railway Hotel, Virginia 7,00 July 17. They had splendid weather and an ent di er. Mr. W. E. Bush presided after dinner, the properties and the various departments of this ad firm ere toasted amid demonstrations of general ality.

learn the gold medals have been awarded at the Christh (N.Z. Exhibition to Messrs. Corbyn, Stacey & Co. medical department of London, for brushware; to the me Commy, of London, for their maltine and the medical compounds therewith; to Messrs. T. medical compounds the med

have heard from two sources that we were in our ist month's reference to Messrs. Corbyn, oncentrated liquors for syrups. It appears have repared the liquors for most of the chemical for may years past. Also in alluding to the cases of pplied by the Sands Manufacturing Co., at these contained so many 6d., 3d., or 1d. S. We ould have said, so many 6d., 3d., and 1d.

and F. Pes in bold and original conceptions. They lately encred one of the most eminent of the Royal smicians draw for them a wall-placard, and a copy titled "Cleanliness is next to Godliness" our advertisements. With Professor Wilk, Mesdames Adelina Patti and Lily sty, Signo ocardi, and Mr. H. S. Marks, R.A., already chariot, Messrs. Pears have done pretty by the Aroishop of Canterbury would complete the

employ of the firm of Evans, Lescher & Webber their ann gathering on Saturday, July 1, at the ayon arms Godstone, Surrey. The morning was octed by the fil, &c. The dinner was presided over by ported by Mr. R. Owers. The usual toasts

"The Queen and Royal Family," "The Firm," &c., were then drunk, and subsequently the company separated to enjoy the splendid scenery of the neighbourhood. Tea followed, after which the party returned to town, all having spent a most satisfactory and enjoyable day, the fine weather having contributed to their enjoyment.

THE ZOEDONE COMPANY (Limited) have completed their arrangement with the Prussian Government for the sole agency for certain German mineral waters for the United Kingdom and the British colonies. The waters to be exploited by the Zoedone Company are the Nieder-Selters, Schwalbach, Schlangenbad, Geilnau, Fachingen, Ems, Weilbach, and Wiesbaden. They also add to this list the Hathorn spring of Saratoga, U.S. In order to introduce them the compary have published a pamphlet describing them, and with comments on the uses of mineral waters generally, written by Dr. Milner Fothergill. They offer by advertisement to send a copy of this pamphlet to any chemist who may desire to have it.



[The following list has been compiled expressly for THE CHEMIST AND DRUGGIST by G. F. Redfern, Patent Agent, 4 South Street, Finsbury, London, and at Paris and Brussels.]

Applications for Letters Patent :-

Abdominal-belt.—No. 2797.—W. A. Barlow.—A communication from W. Tenfel, of Stuttgart, Germany. A new or improved abdominalbelt. Dated June 14, 1882.

Acrating and Raising Beer.—No. 2735.—S. Mason, of Birmingham, manufacturer. Improvements in compressed air machines for acrating and raising beer and other fluids. Dated June 10, 1882.

Antiseptic Compounds.—No. 2669.—J. Jeyes, of Plaistow, Essex, chemist. Improved antiseptic preservative, curative, and clean-sing compounds for sanitary and other purposes. Dated June 7, 1882.

Artificial Manure.—No. 2932.—H. J. Haddan.—A communication from C. H. Hühmann, of Cassel, Germany. Improvements in the manufacture of artificial manure. Dated June 20, 1882.

Artificial Teeth.—No. 2893.—Ε. Reading.—A communication from Dr. H. Buttner, of New York, United States. Improvements in the preparation and fitting of artificial teeth, and in apparatus εmployed therein. Dated June 19, 1882.

Azo-colours.—No. 2946.—C. Holliday, of Huddersfield, Yorkshire, manufacturing chemist. Improvements in producing azo-colours on cotton or other vegetable fibre. Dated June 21, 1882.

Bottle-washer.—No. 2577.—E. Lofts, of Cherryhinton, Cambridgeshire, engineer. Improvements in machinery or apparatus for washing and rinsing bottles. Dated May 31, 1882.

Brewing Solution.—No. 2995,—E. R. Moritz, of Chancery Lane, London.—An improved solution to be εmployed in the brewing of beer. Dated June 24, 1882.

Capsules.—No. 2749.—C. Cheswright, of Parkhurst Road, Holloway, London, manufacturer. Improvements in capsules or coverings for the necks of bottles and other like receptacles, and in the apparatus or means to be employed in their manufacture. Dated Jnne 12, 1882.

Carbonate of Soda.—No. 2876.—H. Gaskell, jun., and F. Hurter, Ph.D., both of Widnes, Lancashire, alkali manufacturers. Improvements in the manufacture of carbonate of soda. Dated June 17, 1582.

Celestine or Strontia. &c.—No. 2708.—F. J. Bolton, of Grosvenor Gardens, Loudon. Improvements in the treatment of celestine or su'phate of strontium and sulphate of strontium for the production of caustic strontia there

Coffee Substitute.—No. 2824.—H. J. Haddan.—A communication from E. A. Grote, of Freudenberg, near Siegn, Germany. A new substitute for coffee. Dated June 15, 1882.

Dental Instruments.—No. 2551.—G. Poulson.—A communication from J. W. Zeuch, of Hamburg, Germany. Improvements in dental instruments. Dated May 30, 1882.

Disinfectants, &c.—No. 2581.—C. W. G. Ernst, of Scheessel, Hanover, now of Aldersgate Street, London. Improvements in the preparation of litter for horses and cattle, and of disinfectants for use in privies, and for like purposes. Dated May 31, 1882.

- Colouring Matters.-No. 2544,-J. Erskine.-A communication from Dr. C. Kænig, of Höechst-am-Main, Germany, a Director of the Farhwerkevorm Meister, Lucius, and Bruning, Chemical Manufacturers. Improvements in colouring matters suitable for dyeing and printing. Dated May 30, 1882.
- Distilling Coal.-No. 2611.-W. J. Cooper, of Westminster, Loudon, analytical chemist. Improvements in the distillation of coal so as to ohtain products therefrom. Dated June 2, 1882.
- Distilling Tar.-No. 2696.-F. Lennard, of Shoreham, Sussex, managing director of the Sussex Chemical Works Company (Limited). Improvements in stills for distilling tar or oil. Dated June 8,
- Explosives .- No. 2895 .- W. R. Lake .- A communication from F. J. Petry, of Vienna. Improvements in the manufacture of explosive materials. Dated June 19, 1882.
- Extracting Colouring Matter, &c.-No. 2991.-J. H. Johnson.-A communication from E. Pereire, of Paris. Improvements in extracting colouring-matter and juices from wood and the like. Date 1 June 23, 1882.
- Extracting Glycerine.-No. 2758.-A. M. Clark.-A communication from Messrs. E. Brochon & Co., of Milan, Italy. An improved process of extracting glycerine from the residuary liquors of the soap manufacture. Dated June 12, 1882.
- Feeding bottles.-No. 2685.-G. Falconnier, of [Nyon, Switzerland. Improvements in feeding-bottles. Dated June 8, 1882.
- Filter-press.-No. 2816.-J. Simpson and E. W. Parnell, of Liverpool, manufacturing chemists. An improved filter-press or apparatus for separating liquids from solids. Dated June 15, 1882.
- Masking Taste of Medicines .- No. 2921 .- W. H. McLaughlin, of San Francisco, California, United States. A preparation for masking the nauseous taste of medicines. Dated June 20, 1882. (Complete specification.)
- Nitric Compounds .- No. 2836 .- W. R. Lake -A communication from H. Gruson, of Buckau-Madgeburg, and A. Hellhoff, of Berlin, Germany, artillery officer. Improvements in the manufacture of nitric or nitro compounds, chiefly designed for explosive purposes, and in methods of and means or apparatus for utili-ing the same or similar compounds. Dated June 15, 1882.
- Obtaining Ferro-cyanide of Iron, &c.-No. 2918.-S. Pitt.-A communication from H. Bower, of Philadelphia, United States. A certain new and useful process for obtaining ferro-cyauide of iron and ammonia from the products of the manufacture of coal-gas. Dated June 20, 1882.
- Opening Bottles.-No. 2775.-D. C. Berthod, licensed victualler, of Thanet Street, Burton Crescent, London. Opening mineral-water hottles. Dated June 13, 1882.
- Peroxide of Lead .- No. 2763 .- D. G. Fitz-Gerald, of Brixton, London, electrician. Improvements in the manufacture of peroxide of lead and reduction of certain metals. Dated June 12, 1882.
- Preparing Colours.-No. 2884.-B. Grénic, of New Bond Street, London, Artist. An improved process of preparing colours with mordants which permanently fix such colours in any material to which they are applied. Dated June 19, 1882.
- Preserving Milk .- No. 2615 .- E. Scherff, of Wendisch Buchhholz, Prussia, Germany. Improvements in the preservation of milk, and in apparatus to be employed in connection therewith. Dated June 3, 1882.
- Purifying Casks, &c .- No. 2692 .- J. La Mert and B. La Mert, both of Melcombe Place, Dorset Square, London. Improvements in the method of and materials for purifying casks and other receptacles, and for preserving them from fouling. Dated June 8, 1882,
- Purifying Gas, &c .- No. 2981 .- J. Duke, of Glastonbury, Somersetshire. Improvements in the purification of gas and in the manufacture of a fertilising compound as a resultant therefrom. Dated June 23, 1882.
- Retaining Heat in Feeding bottles.—No. 2839.—C. P. D. Chittenden, of Lee, Kent, Surgeon. A new or improved method of and apparatus for retaining heat in infants' feeling-bottles, also applicable for preserving ice, and other purposes. Dated June 16, 1882.
- Separating Soluble Matters .- No. 2585 .- G. T. Beilby, of Mid Calder, Mid Lothian, North Britain, chemist. Improvements in processes or apparatus for separating soluble matters from gases. Dated June 1, 1882.
- Soap.-No. 2835.-W. R. Lake.-A communication from J. Bankmann, of Vienna. An improved manner of preparing soap for toilet and other purposes. Dated June 15, 1882.
- Scap Sheets.—No. 2936.—G. F. Redfern.—A communication from H. Buczkowski, of Vienna. A new or improved process of, and apparatus for manufacturing soap sheets. (Complete specification.) Dated June 20, 1882.
- Sulphide of Sodium .- No. 2664 .- G. W. von Nawrocki .- A communication from the Verein chemischer Fabriken, of Mannheim, Germany. A new or improved process for the manufacture of sulphide of sodinm. Dated June 7, 1882.

- Stands for Bottles .- No. 2798 .- F. Sihray and J. F. all, both 3 Sheffield, manufacturers. Improvements in star for me hottles and other similar receptacles. Dated June 1832 Stopping Bottles.-No. 2597.-G. Falconnier, of Ny. Switzerie
  - Improved means for stoppering hottles or flagons, lated Jng 1882.
- Testing Capacity of the Lungs.—No. 2681.—E. Edita.—A Colf.
  munication of M. Dupont, of Paris. Improvement in apparatus for testing the capacity of the lungs. Dated Jun 1882. Treating Carbonaceous, &c., Substances.-No. 2,-H. Att
- of Falkirk, Stirling, North Britain. Improvemts in tree carbonaceous, bituminous, calcareous, and other bstances as ores, in order to obtain products therefrom, i in thes ratus or means to be employed therefor. Dated ne 8, 1881
- Treating Gases.—No. 2709.—F. J. Bolton, of Gro nor Gar London, and J. A. Wanklyn, of Westminster C. berr, Lo professor of chemistry. Improvements in the t ment of containing ammouia for the production of artiful manure ammoniacal salts, and in apparatus for that roose. June 9, 1882.
- Treating Nitrogenous Matters .- No. 2955,-J. Mewborn communication from L. Fouque, of Paris. provemen treating nitrogenous matters to obtain useful oducts apparatus employed therein. Dated June 21, 18
- Treating Nitrogenous Matters .- No. 2970.-E 1 ards -4 munication from L. de Soulages, of Paris, Improvents in m or process of treating sewage and other fæcal an thersale containing nitrogen, for the purpose of obtaing mane various chemical products, and in machinery an apparatus employed in such method or process. Dated Jul 2, 1842.
- Treating Waste Lime .- No. 2730 .- G. R. Bislop, of isley, Re sbire, North Britain, gas manager.-Improve ats la un waste lime in order to separate sulphur com ands ther Dated June 10, 1882.
- Voltaic Batteries.-No. 2688.-C. G. Gumpel, of sicester a London, -Improvements in voltaic batteries. 1 d January
- Voltaic Batteries.-No. 2762. -D. G. Fitz-Gerald, of ixton. electrician .- Improvements in voltaic batteries Dated J 1882.
- Specifications published during the month :-

#### Postage 1d. each extra. (1881.)

3291. T. F. Haldane. Retorts for the continuous disti ion of an analysis. &c. (Not proceeded with.) 2d.

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- 4515, J. Sturgeon and J. W. de V. Galwey. Applyin cold sit for the land mannfacture of ice. &c. 6d.
- 4619. E. A. Pontifex and R. Gunning. Filter-presse (Not presse with) 2d.
- Refrigerating and freezing, &c (Not pro-4720. J. Chamhers. with.) 2d.
- 4740. A. J. Boult. Purifying wax, fats, or resins, &c.
- 4743. E. G. Brewer. Prescryation of milk. 6d.
- 4748. W. R. Lake. Galvanic or electric batteries. 6d.
- 4761. P. Jenson. Production of spirits directly from the rash.
- 4761. P. Jenson. Production of spirits arrectly from the second 22 min at the second 22 min a (Not proceeded with.) 2d.
- 4790. T. Smith. Vaccinating apparatus. 6d.
- 4794. W. Malcolm. Furnaces and apparatus connec evaporating and incinerating alkaline lyes, & (Not pro with) 4d.
- 4801. W. R. Lake. Sizing paper, &c. 4d.
- 4802. William Brothers. Mannfacture of whiting. 2d
- 4804. S. H. Johnson. Manufacture of filtering paper. 4857. W. R. Lake. Drying, airing, oxidising &c.,
- materials. 1s.
- 4866. T. Coal. Voltaic or galvanic hatteries. 6d.
- 4867. T. Coad. Cabinet for voltaic or galvanic hatterie 6d.
- 48:1. A. C. Henderson. Apparatus for testing the pu of the (Not proceeded with.) 2d.
- 4888. T. Richters. Manufacture of sulphuric acid. 4d
- 4890. A. G. Salomon. Filter-presses, &c. (Not proceed with) 4896. J. Plener. Preparation of photographic emulsion 6d.
- 4897. W. R. Lake. Aging padded, dyed, or printed xtile or high account to the base of the materials, &c. 2d.
- 4899. J. Imray. Manufacture of colouring matters. 2 4:07. P. Jensen. Generation of water-gas, &c. 6d.
- 4915. E. Edwards. Preparation of farinaceous food to used as a su
- tute for coffee &c. (Not proceeded with.) 2d. 4920. R. Kimm. Appliances for reproducing or mn lying con-
- drawings, letters, &c. (Not proceeded with.) 4936. W. R. Lake. Extracting glycerine, oleine, &c., om various
- stances. 4d. 4952. G. Robson. Packing casts for bottles, &c. 6d.
- 4969. J. Murrell. Machine for syruping ginger beer, & (Not proce with.) 2d.

### ESTRACTS OF SPECIFICATIONS.

sion to print the following we are indebted to court of the Engineer:—

5. Man CTORE OF Artificial Perchment, &c., C. Weygang, South It sey. - November 24, 1881. - (Not proceeded with.) 2d.

is ones principally in an adaptation of the property which animal possessof being rendered by treatment with bichromate of potash alum cluble and very teracious, in continuation with animal or

5. Tee Brushes, E. Pierrepent, Iondon.-November 14. 1881.

d. ? Protesting made to conform to the contour of the dental arch and

o general 5, Free ation of Farinaceous Food to be used as a Substitute

for Co. & C., E. Edvards, London.—Nevember 9,1881.—(A communication on F. Maire, Lyons.) 2d.

battats platoce, lentils, maize, and vanilla are mixed together.

7. MANU CTURE OF Pills, &C., W. R. Lake, London.—Oc'ober 27, [ask.—Communication from J. A. Whitney, Lobbs Ferry, N.J., [ask.], d. 18 Figs.

miver n comprises certain methods and combinations of parts for sing thill mass into symmetrically shaped pills.

TREA SAT OF Malt 10 PRODUCE AN ARTICLE OF DIET, WHICH LAY BE ED as a Substitute for Coffee, A. & M. Conroy, Lucyco October 28, 1881. 2d.

wer soled malt is con hired with an extract of coffee.

1. Supritories, B. J. B. Mills, Iondon.—November 16, 1881.—(A

m consist of a stoppered hollow suppositivity formed of butter, cocca salegoes sterial, and adapted to enclose and hold any desired medication nonlinent, and to be hermetically scaled by heat.

1292. TREATING AND Ameliorating Alechols. & ... II. A. Bonneville, London.—March 17, 1882.—(A communication from A. Rolu, jun., Paris.)—(Complete.) 4d.

This relates to the treatment of alcohols and alcoholic liquors in a fermented state before distillation with plyconic and matters of which it consists, and tapecially with fats or oils of coces, macadine, eccount, raim or galam.

5085. Composition for Rendering Writing Paper Ink Ausorbent. E. Detnold, Putney.—November 21, 1861. (Not proceeded with) 2d.

The composition consists of alum, 6 oz.; nitrate of silver, 5 grains; albumen,  $\frac{1}{2}$  oz.; distilled water, 1 quart.

5000. Mercurial Air pumps, C. II. Stearn. Newcastle-upon-Type.— November 15, 1881. 6d.

This consists, first, in the combination with mercurial air pumps of an automatic feeding apparatus, whereby the fallen mercury utilited is repeatedly restored to its original elevated source; secondly, in the combination in mercurial air-pumps of a fall-tube or fall-tubes of less length than the barometric column, with the automatic feeding apparatus, the said fall-tube or fall-tubes being placed in communication with or enclosed in a tube or receptacle partially exhausted of its air by a mercurial air-pump or other equivalent appliance.

5283. MATERIALS FOR Washing and Cleaning, &c., G. F. Redfern, Lendon - Eccember 2, 1881.—(A communication from H. Buc.kowski, Vienna.) 4d.

This consists in treating sheets or leaflets of paper or fibrous or textile material with a soap solution or soap emulsion.

5296. Sulpho acids, F. Wirth, Frankfort.—Dec mber 3, 1881.—(A communication from Kalle & Co., Bubruch, Germany.) 4d.

This consists in the production of sulpho acids by means of hydrate sulphuric acid in the presence of metaphosphoric acid.

4697. Elastic Cotton, G. G. de Luna Byron, Brighton,—October 27, 1881. 6d.

This relates to treating cotton fibres with snperheated steam, impregnated with such chemicals as alkalies, potash, alum, or other salts, for the purpose of rendering such cotton elastic.

## Jechnas Solumn.

DESCRIPTION THE EXCHANGE COLUMN WILL INTERPRET TO THE EXCHANGE COLUMN WILL INTERPRET TO THE EXCHANGE COLUMN WILL AMOUNT THE EXCHANGE TO THE EXCHANGE THE EXCHANGE

e would o suggest that those who avail and res of a Disposal section will be wise since approach to detail, what have to . Probable purchasers are too y, in most sees, to enter into preliminary sanden which is likely enough to have timater it.

man at thate of one halfpenny per word, xaddion t name and address are added.

and a ses to be paid for. Price in recounts one word.

name an uldress are not included, one upper womust be paid. A number will be attack do the advertisement by the likes of 7 CBEMIST AND DRUGGIST, and corresponder relating to it must be reased to "Publisher of THE CHEMIST DRUGGI." the envelope to be the day of the number. The Publisher and with at his share in the transaction case,

Deposit of Money.—In order to ensure the word of the following system:—The finance of lything advertised in the Expanse column may remit the amount to us. I will be selected to both parties by steadl soon ledge receipt to both parties on the later of the mitter. Whether returned to make a paid the seller, we charge a community of the seller, we charge a community of the seller, we charge a community of the seller of the sel

### Deal and Surgical.

Lar-bed, new, sell, 84 by 30 cost 2l. 10s., will take 25s. Pollard, Halifax.

Pair spring-crntches, almost new, cost 3l. 10s.; what offers? Dedgson, Chemist, Ramsey, Isle of Man.

12 tooth instruments, various, atd 18 stopping, of a dentist (deceased), new within six months, to be sold in one lot 35s.; great bargain. Dentist, 4 Harbour Street, Folkestone.

To Dentists.—Celluloid Manufacturing Company's steam apparatus for sale, price 2t.; one Dental Manufacturing'Company's operating room lathe, price 2t. 2s., cost 4t. 4s.; six new operating room lathes, S. S. White's pattern, price 2t. each, usual derot price 4t. 10s.; handsome rosewood marble-topped redestal spittoon, price 50. W. Dougan, 172 Oxford Road, Manchester.

#### Drugs and Chemicals.

O'. lavand. ang. (1878), 8 oz., 10s. oz. Rippon, 85 Upper Street, Islington, N.

3 lbs. extract belladonna, 12s. lb. J. Bancroft, Barum Top, Halifax.

12 oz Howard's quinine sulph., 51. 5s.; deposit with editor. 197'19.

Effervescing saline, well dried, in bulk at 1s. 1d. per lb.; formula and samples on application. 199,23.

6 galls. syr. rheados., good colour, 4d. per lb., or the lot at 3d lb.; 40 lbs. old Chilian honey. price 3d. per lb., thin. Kemp, Chemist, Horncastle.

Offers wanted for quantity of chrisma; Higginson's enema; ½-oz., 6-oz. essence-hottles; lin. bellad, meth., crem. tart., pot. hromid., pot. citras, apiol, ol. cassie, ol. caryoph., croten chloral, Parrish's food, magnes. calc., honey, tannin, aq. laurocerasi, pot. sulphuret., sodæ bicarb., vial corks, Eno's salt, hogshead of stout, Apollmaris, sp. ammon. arom, pomades. Day & Co., Herne Hill.

24 oz. oil cubebs, 10 oz. oil pulegii (English), 1C0 oz. oil geranium (Turkey), 20 oz. pulv. extract colocynth co, 8 lbs. Hay's soluble essence ginger, 16 lbs. albumen; two stamps for sample. W. Rogera, Chemist, Stepney, E.

#### Proprietary Articles.

Offers solicited for quantity of Apollinaris water, 199/16.

Ten dozen and half Bradbury's sheep-dip; three dozen Bradbury's fly-powder; what cash offers? 198/30.

About 12 doz. Epp's 1s. pilales and tinctures; good condition, price 4s. doz. Kemp, Chemist, Horneastle.

Lewis' liniment, Nuttall'a pills, Price's golden oils, Deutercte, Dodd's liver pills, Thompson's cement, Alexander Ross' hair preparation, German lights, fly-papers, Anderson's tissue phosphates, Dr. Hall's chlorate potassæ, Colonel Rigby's extract pomegranate, at less than half-price. List sent. Stevens, Mansfeld Road, N.W.

Six dozen Jones' Tramadoc pills 2s. 6d., perfectly clean, 14s. dozen, lot 3d. 12s.; a quantity of Goodall's butter powder, 1s., 6d., and 3d., offers for lot or dozen, cheap; one 10s. 6d. hox Ruspini's styptic, 5s.; 1 dozen Ramsay's Cumberland bituminous fluid, 2s. 9d., 15s.; 6 dozen Nuttall & Sons' stomach and liver pills, 1s. 14d., 6s. 6d. dozen. G. Hughes. Paddington, Liverpool.

Six 2s. 9d. Atkinson & Barker's infants' preservative, nine 1s. 1½d. ditto; three 2s. 9d. Hibbert's antiseptic medicine and embrecation, nine 1s. 1½d. ditto; 15 1s. 1½d. Margery's "Whoopterine;" three dozen Woodhouse's rheumatic elixir, 2s. 9d., and one dozen 4s. 6d. ditto; two dozen 2s. 6d. Contice's extract nnt galls, and two dozen 3s. 6d. ditto; two dozen 1s. Sarg's perfumed glycerinc. W. Rogers, Chemist, Stepney, E.

One dozen Bilin water half hottles; best offer. Whitrow, Chem'st, Tunhridge Wells.

#### Apparatus.

A 2-gallon I ynch's double action tincture-press, good as new; offer. 199/27.

A small American drug-mill, little used, will take 10s. Geo. Vennall, Cranleigh, Guildford.

Cocking's cylindrical piper, with two sets of brass rollers for different siz.d pills, in perfect order; al.o Pindar's pill-kneading machine, not having time to use them, cost 44.8s. State offers to Dr. Cooper, Bandon, County Cork, Ireland.

#### Educational.

Boting. — The officinal plants, beautifully mounted, &c., reduced to 5s. Higginson, Newferry, Birkenhead.

Set of illegible autograph prescriptions (original), 2s. 6d.; 30 prescriptions (catch and difficult) given to dispense at Minor during past 12 months, 2s.; 50 questions asked of successful students at last Minor, 1s. 1d.; lot of cheap, almost new, books. Stamp for list, Saunders, 130 Camden Road, N.W.; note change of residence.

#### Literature.

Trall's "Sexual Physiology," illustrated and quite new, 7s; Aristotle, illustrated, new, 3s., post free. 192/29.

3s., post free. 192/29.

"Pharmacopoia Londinensis," Latin, 1836,
2s. 6d. post free; Withering's "British
Plants," 4 vols. re-bound in 3, half calf, excellent condition, 10s. 6d. in London.
James Brown, Amptbill.

Arnott's "Physics," 10s. 6d; Pharmacutical Journal from 1875, 3s, single vols. 4s.; Chemist and Druggist from 1875; "Year-book of Pharmacy," 1874 to 1877; what offers? Jones, Pharm accutist, Treherbert.

Pharmaceutical Journal, last four volumes, unbound; Williamson's "Chemistry," Will's "Materia Medica," "Pharmaey," "Physics," and "Practical Analysis"; Balfour's "Elements of Fotany." What offers for whole or part? Coemicus, 2 Blenheim Paradc, Cheltenlam.

Dedman's "Midwifery," 2s. 6d.; Sinclair's " Midwifery: Account of Thirteen Thousand Deliveries in Dublin Hospital," 4s., published at 15s.; McClintock's Diseases Women," illustrated, 4s.; Loe's "Midwifery." illustrated, 3s. 6d.; West's "Diseases Women and Children," 4s., published at 14s.; Cooper's " Surgical Dictionary," 1,200 pages, Diseases and Renelies, 3s. 6d.; Bell's "Anatomy," illustrated, 2 vols, 3s.; Pereira's "Selceta Prescriptis," new, 16th edition, 1s. 6d.; Latin Delectus for students, dietionary attached, also first rudiments Latin, 2 vols., 1s. fd.; "Jnlii Cæsaris Commentarii, 1s. 6d.; Milton's celehrated work on gonorrhea, &c., ncw, 3s.; "Seven Kings Rome," Latin and English, 1s., published, 3s.; notes various sciences, 1s., eost 6s. 6d.; Regnault's "Elements de Chimie," 2s.; Fuller's Pharm acopœia, scarce, quaint, printed 1710, 2s. 6d.; Cooper's "Complete Distiller," 1s.; Coomb's "Constitution Man, Phrenology," illustrated, 1s. 6d.; Gregory's "Magnetism, Mesmerism, Electro-hiology, &e.," 500 pages, 2s. 6d.,; wine-merchants' hook: 200 recipes, spirits, wines, liqueurs, foreign syrups, fruits in brandy, 2s.; Shaw's "Electro-metallurgy, Electro Gilding, Plating, Chemistry, Magneto-electricity," illustrated, 2s.; the Argosy, unsoiled, four entire years, commencing Jan., 1877, four complete novels, 200 short tales, &c., 4s, 6d. Postal orders. Keeley, Chemist, Mortimer Road, Kingsland.

Pereira's "Materia Medica," last edition, numcrous plates, 3 vols. 8vo, 31, 15s., nncut; first reasonable offer accepted. D. Mackay, Chemist. Scouringburn, Dundee,

#### Soda-water Plant.

Barnett & Foster have some second-hand sodawater machinery of their own make for sale, Apply 23T Forston Street, Shephendess Walk, N.

30l., all at: American-principle machine, by Davenport, with two washers, dial, pange, 12-galon copper cylinder, iron agitating-rack, flexible charging-pipe, in good condition and working order; second-hand; to charge 24 gallons per hour, or 300 dozen per day. Particulars, N. G. Wilcocks, Bath.

A Bargain.—A soda-water machine with pressure-gauge and water glass, gas-tube and eopper holder and lead generator; also a corking machine; will make 20 dozen per hour hy hand or steam; can be seen at work; price 25t. Also a vertical three-horse power steam-engine for 25t., and about 100 dozen plain, split, and other cork bottles at 9d. per dozen. Apily, J. Snell, Mineral Waterworks, Bury St. Edmunds.

#### Shares.

Disposal.—One 10l. share in Chemists' Aërated and Mineral Waters Association. A. B., 54 High Street, Stroud.

100 17, shares in Indian Zoedone Company, 10s. paid. Offers to Chemicus, 18 Gladstone Street, Moss Side, Manchester.

#### Shop Fittings.

Pear's "Dirty Boy," perfect; what offers? E. Palmer, Chemist, Aylesbury.

Mahogany glass ease, 26 inches high, 30 inches wide, opens in front, with two doors, similar to Maw's A 32, moving shelves, equal to new, 25s. E. Falmer, Chemist, Aylesbury.

Cheap.—20 nests of drug-drawers, 500 feet shelving, four desks and cases, 22 storebottles, eight window-carboys, three counters, 12/t., 5 ft., and 4 ft. long; must be eleared out. B. & G., 22 Gun Street, Brushfield Street, Bishopsgate, London.

Second-hand Fittings.—16-foot 2-inch mahogany-fronted drug-drawers, containing 113, with lockers and cover-board, 64. 18s.; chonised counter case, bent plate-glass top to lift up, silvered-glass back, 45 inches long, 15 inches wide, 21. 5s. W. Hawke & Son, Wild Court, Great Wild Street, London, W.C.

The superior mahogany fittings of a chemist's shop, by Kidstone, nearly new, drawers with bevilled-edged g'ass labels and knobs, lockers under, with shelving, pilasters with carved spandrils and trusses, moulded cornice above; plate-glass wall-case, poison-cupboard, lent plate-glass counter-case, desk, counter, &c., also several other complete chemists' fittings for sale; great bargains; on view at Lloyd Rayner's Medical Fixture Stores, 333 Kingsland Road, London.

Fittings.—Glass labels, glass knobs, and fittings to fit a shop 14 ft. hy 12 ft. for 421.; hottles, counter with 20 drawers, and nearly complete; dispensing - screens, all mirror centres, 4 ft., 80s.; 5 ft., 100s.; 5½ ft., 80s.; 6 ft., 9:s.; 7 ft., 110s.; 8 ft., 150s.; good pine wall-case, 10 ft. long, 9 ft. high, 120s.; mahogany wall-case, 6½ ft. long, 9½ ft. high, 8L; desk and glass box, 40s.; lot of large carhoys, cheap; about 50 specie-jars, all sizes; 1,000 ointment jars, in blue, offive, pink, white, and lilac; a large assortmeut of globes, jars, and cases of every description. R. Tomlinson, 15 St. Panl's Square, Birmingham.

Plate-glass counter-cases, every cripment pensing screens all kinds, abogang deal fronted geld-labelled op drawer lengths; wall cases with a without boards under, all lengths pahogan retail and dispensing count, all lens counters with glass-case free, shelvh ler gths, tooth-hrnsh, spon dentista side show-cases; soda-watestands. stands, mirror backs, wir w enclo handsome shop-lamps and rackets, bottles and jars, pill machin bust H mann, Ashton's homeopele show Sonthall's materia medic cabinet every description fixtures r utens quired by the trade. oyd R 333 Kingsland Road, 2 Ivnham 46 De Beauvior Cresce King London.

Special lot of shop rounds for sentire sa 16 8-oz. n.m. rounds, 6d.; -oz. ethi: 36 32-oz. w.m., 1s.; 22 :oz. n.m. 41 40-oz. n.m., 1s. 2d.; 40-oz. 1s. 2d.; 19 40-oz. w.m. in cap: 8 40-oz. pale blue syrnp. 9d.; glass-capped ol. bottles, 25 5 40-05 hottles, 1. 3d. each. The ove an Glass Company's best quity of with globe stoppers suita for culrequired, and the labels a in good tion. Bent-front glass cal as foll good job lot, equal to new 1 5 ft. b hy 8 in., 57s. 6d.; 2 3 ft. b 6 ln. b; 40s.; 3 30 in. by 18 in. y 8 ln 2 25 in. by 16 in. by 9 in. 4.; 4 1 16 in. by 9 in., 27s. 6d.; 2 in. by 10 in., 55s., tablet on hack 72 ln. by 10 in., 55s. R. Tomlin, 15 8 Square, Birmingham.

#### Formulæ

For restoring and beautifyin he hale, known to fail; will he nt on of 13 stamps. Chiswell Rotson, 26 Square, N.

Genuine Recipes.—Soluble es cos of horehound, lemon, and or ze; bea aërated waters; 5s, each, s, lot. I cer powders, 2s. 6d. in acts A. W., 68 Eggington Stret Rochdal Manchester.

Fragrant foaming dentifrice (1 " Floris marking ink, sine silver niline), executed defies chemic; effer fruit saline (resembles E 3); mag ralgic drops (never-failing medy); and iron tonic (resemble eppers) jnice and glycerine (inscrable, w milk); hlne-black ink (t -corrost iron or galls); cherry t h paste ferments, like Cornel's); rillianti separable, like Rimme; pill-(pearly white, no mucilag r mastle glycerine jelly (perfec trans crimson marking ink; ha estorer less, no deposit, sine (er); al vinegar; toilet vinegar (a immei's) powder (like Stevens' 6 licon") nades Flavum Conc., for stable); soluble essence g er (like corn solvent, clear (1 acid); copaibæ comp. c. huchu matico clear with water); gonor ra paste lent (Dr. Ricord's); tars um and phyllin (resembles Pepp); with others; send stamp for li stating The toilet preparations , identica those prepared by a whole West-en others equally good; all in ensive to 5s. each (five for 1%). Res s are cal against cheap and worth imitatle was first to advertise mulæ i Note chang of journal. Note chang of res. Analyst," care of Mr. W es, 130 C

Road, N.W.

enex entrecipe for fruit salt, which I sell sell on receipt of 18 stamps and inected envelope, and on same erms of rof following, viz.:—Glycerine otion, a pare white emulsion, leping li, very efficacious, cost trilling; enuet for junkets, &c.; diamond utical form; plastic physic mass, mended; soothing syrup for insant g s; tho lot 5s., all reliable. H.

faction (aranteed.—Recipes of genuine reparat's in actual commerce; not opies in journals requiring verification, ut the ult of much experience and exence. I sold hundreds of testimonials pocernia their worth, and will exchange my reciprot considered satisfactory or gwer a questions. All communications trictly c idential. " Entirely New Tooththe Rely," gives instant ease, non-Nigerin jet-black, waterproof, patent lacking, eaper and better than Nubian, ontains improves the leather; "Diges-Rei " most appetising sauce in mation, ellow, piquante, costs 34. 6d. calon; 'upuline Bitters," the king of gatable nics, vastly superior to the sech adv ised hop bitters; " Lime Cream ad Glyche," snow-white chemical comunation, ver separates nor decomposes, pickly nie; "Foaming Dentifrice," reembies Filine, one-eighth cost, exquisite misur; "ed - rose Lotion" (recipe of sasmus son), removes freckles, sunhurn, as, &c., eps well; "Rheumatic Embro ation," to and surest cure for gout and all rheum c pains, costs 7d. lb.; "Tonic Hair Lotie" cleanses the head, strengthens hair, cong, not oily; "Amygdaline Balm," re elegant, superior, and less mostly the any glycerine balm in the market, dte innocent, non-sticky; "Eflervescent epurative Saline," facsimile of Loo's, en ly soluble, keeps well, 10d. Ib., oco tried other used; "Cryptzymosis, certain spy cure for gleet, this injection warrant to cure long-standing cases, a marantee preventive ; "Campholyde, atternal cific for neuralgia, rapid in action ancheanly; "Hair-restorer" (sine sulphur), ar solution and sweet, may he nestly commended; "Liver Pills" regetable mildly aperient, pleasant action, no terwards confining; "Lavander ater" (st-end recipe), equals Sainsany's in ana and durability of fragrance; "Uccasion Pills" (for ladies), physician's prescriptic preferred by many to Welch's; stomacb corrector" (Dr. Taylor's), p. sant ting, mild aperient, adaptable to childre and adults; "Conservatine," compound wder like Glacialine, preserves meat, &c., cheap; " Essence 1 Deafne simple, noa injurious, quickly releves; 'unine and Iron Tonic" (resendes Pper's), excellent, bright, and cachanger; "Worm Syrup," purely regtable, to taste, pleasant action, and ortaln; ist. Genorrhoa" (copaiba), radical en nauseous taste masked, preentable as wance, quickly made; " Toilet Thegar" se Rimmel's), most refreshing, quarter e; "Corn-eradicator" sembles H reave's), warranted most excellent, ne knew it fail; "Mollispæna," for tender et and offensive perspiration, carative a disinfectant. Recipes 1s. 1d. each, six f.v., free, with full instructions lor makin and all particulars. Detailed printed lis vost free. T. Brooks, Chemist, Louth, Li

Gasogene powders, 2-pint, 3-pint, 5-pint; gonorrhea mixture, gonorrhea injection, certain cure; pick-une-up bitters, equals American; extract of soap, equals lludson's; bronchial troches, equal American; grease - extractor, unequalled; soothing syrup, equals Winslow's; ginger-beer powder, unequalled; aromatic vinegar, toilet vinegar; infants' preservative. equals Aitkinson's; cepbalic snuff; digestive and liver pills, physician's prescription; camomile pills, equal Norten's; gout tincture and pills, sure remedy; anti-spasmodic drops, never fail; balsam of honey, unequalled for cough; mixture and embrocation for whooping - cough; odoriferous lavender-water, good; eau de Cologne, good; odoriferous honey-water, American tooth-powder, cherry tooth-paste, areca-nut tooth-paste, quinine dentifrice; toothache specific, certain cure; aromatic toothpowder, aqua eosmetica for complexion, pearl dentifrice, lotion for freckles, coral dentifrice, white tooth-paste, lemon cream for freckles, antiseptic tooth - powder; kalydor, equals Rowland's; rose dentifrice; hair lotion, sine sulphur; Circassian dentifrice, coral tooth-pastc, almond shavingpaste; liquid shee-blacking, equals Nnbiau; oil of roses, equals maeassar oil; bandoline, brilliantine; custard-powder, equals Bird's; red and black marking ink, plate-powder; neuralgic specific, always relieves; quinine and iron tonie, pain-destroyer for sciatica, &c., hoot-top liquid, starch gloss; cornsolvent, dissolves corn in four days; effervescent saline, furniture - paste, brasspolish, diarrhœa mixture; digestive relish, cheap and good; mixture pills and electuary for piles, writing ink, diamond cement for glass, &c.; chlorodyne, equals Brown's; moth-powder to destroy moth; hair-dye, good; medicated extract of rosmary, for promoting the growth of the hair; extract of elderflowers, for complexion; sachetpowder; glycerine jelly, red and white; glycerine cream, for chilblains; ncuralgic ointment, sure remedy; rose-leaf powder, nnequalled; depilatory for superfluous hair; itch lotion, celebrated; rose lip salve; Circassian cream, for hair; crystalline cream, for hair. The above recipes are all guaranteed genuiue, and will be sent at the following rates—1, 1s.; 3, 2s. 6d.; 25, 1l. Ouly address, "Formula," the Postoffice, Hitchin, Herts.

#### Miscellaneous.

Quantity of excellent fly-papers, price 4s. 6d. per thousand; 20s. for 5,000. Halford, Chemist, New John Street, Birmingham.

Sweet mellow-toned violin, Cremona copy, case and bow, only 27s. 6d., eost 60s.; approval. Riley, 1 Broad Street, Pendleton.

50 lbs. bronze powder, various kinds, in 1-oz. packets, 7s. 6d. lb.; sample oz., 10d., [post tree. Lockwood, Chemist. Sbeffield. Air.gun walking-stick, very powerful, with

Air-gun walking-stick, very powerful, with pump and all appliances, quite new, in ea'r case, 2l, 15s. Halford, Chemist, New John Street, Birmingham.

One dozen 6.oz. blne extract-pots, labelled; ½ cwt. Gibbs' honschold soap, 80-gallon galvanised cistern, 60-gallon iron ditto, 30-gallon ditto, ½ gross French essence-bottles (4-oz.), 2 gross odd ditto. 197/3.

About 3 gross best quality very handsome whiteflint bottles, 20.cz., at 19s. per gross; about 1½ gross ditto 10.oz., at 13s. per gross. Address, Burronghs, Wellcome & Co., 7 Snow Hill, London.

Formula dry soap, 5s.; two new shop signs, "Chemist," "Druggist," 3 yards long, 11 in. wide, 15s.; set Jones' forceps, new, in roll, 35s.; dye envelope, 91. gross; specie jar, 15s. 50 Spooner Road, Sheffield. A Bargain.—Stock fixtures, &c., of a small business for immediate disposal. Address, Mrs. Charles Firth, Hoyland, near Barnsley.

Four gross best 4-oz. white-glass phials and crate, 36s.; pill machine, 24 5-grain, 10s 6d.; pill-coater (Akester's), Lynch, never used, 5s.; 10-lb. pottle pot. bromid., 16s. (References.) Bowness, Chemist, Workington.

A new five grain mahogany pill machi ne, to cut 21; a second-hand ditto with ma rble slab; pastile machine, to cut 24; 15 gross two-drachm flat bottles, suitable for gold ink or cement, and quantity of labels for same; stamp for sample; six dozen rubber nipple-shields, slightly soiled; 12 dozen 6d. Judson's dyes. W. Rogers, Chemist, Stepney, E.

One dozen violet-powder wrappers, gilt; bress "Argand" reading lamp; tea-mixing machine; coffee-grinding machine; nest 32 drawers; three-gallon swing kettle, with tap; counter seales; 6-foot glass counter-case; platform scales, 5 cwt.; three large oil-cisterns, with taps; sodawater stand. Wilks, Burnley.

A Bargain.—A handsome Irish water spaniel bitch of the highest pedigree; sire, the prizedog Wallace; dam Molly Molly, ex the champion prize bitch young Kathleen, by the prize dog Timrich. She was served on the 25th ult. hy Pompey, ex Duck, by Wallace. She has a splendid top-knot, and would in all probability take highest honours if exhibited. Price, to make room, seven guineas only. Hay, Chemist, 4 Regeut's Terrace. Hull.

About 1 ton bright-red paint, extra quality (sample), 12s. cwt., packages free. About 3 cwt. mixed paint, in 1-lb. and 2-lb. tins, put up this year, hest quality, clean, 32s. cwt. A quantity of best German sashtools, new, at per dozen:—No. 3, 10d.; No. 4, 1s. 4d.; No. 5, 1s. 8d.; No. 6, 2s.; No. 7, 2s. 4d.; No. 8, 3s.; No. 9, 3s. 8d.; No. 10, 4s. 4d.; No. 11, 5s.; No. 12. 6s.; No. 13, 6s. 8d.; No. 14, 7s. 6d. A barrel (40 gallons) mineral lubricating oil for 35s., barrel free; 1½ cwt. cart-grease (in 28-lb. kegs) for 10s. Bowness, Chemist, Workington.

#### WANTED,

Cocking's donble action pill machine, 196,13. Spectacles; send lowest price and particular's, 197/21.

Brassear-syringe; Cassell's "Family Physician"; tooth-forceps, small. Turpin, Oxford.

A second-hand, large sized granite or marble mortar and pestle. Send size and price to G. V. Ball, Parson's Street, Banhury.

G. V. Ball, Person's Street, Banhury.
Cooley's "Practical Receipts," latest edition,
lowest price, Alexander, Chemist, Edinhurgh.

Two pear shaped show bottles, 10 or 12 gallens: state lowest price. Osberne, Chemist, Mos Side, Manchester.

Brittain's "Abbreviations of Medical Prescriptions," "Vade Meenm," latest edition. Quote price to 18/21.

Chemist and Druggist, bound or Innbound, for 1877, 1878, 1879, 1880. Coeper, Chemist, Cockermouth.

We are still in want of February and March numbers of *The Chemist and Druggist*, 8a, each will be paid for complete copies sent to 44A Cannon Street, E.C.

Chemist and Druggist numbers for January, 1870, and January, 1874; also title and index for 1869, 1870, 1875, 1876; good price given. Mahen, Hawick.

A copy of the latest edition of Gray and Redwood's Supplement to the Pharmacopola; state condition and lowest price. Flemons, Pharmacist, Dunstable,

### Ernde Report.

THE Board of Trade returns for June continue to be moderately satisfactory. The rather of rately satisfactory. The value of goods imported amounted to 31,572,322l. against 30,865,882l. in June, 1881. The import tables generally indicate that the goods imported for manufacturers are in rather better demand than last year. The exports for the month show an increase of about 7 per cent. in value over those of June, 1881, being 20,118,250%, and 18,804,997%, respectively. Chemicals show some sign of improvement, and although the alkali foreign trade appears to be still shrinking a slight advance in price seems to be indicated. The figures are as follows:

June, 1881 .. cwt. 617,629 .. value £191,849 .. £2' 8,527 571,636 £184,273 Ditto Other chemicala

The chemical trade of the North still suffers from an excessive production. There is, perhaps, no other instance existent among the industries of the country of steady perseverance in a losing business. There is a fractional advance in soda crystals and ash over last month, but there is no evidence of continued firmness. Citric acid has been in active demand and last week was not obtainable at 2s., but that price is now accepted. Tartaric and cream of tartar are quiet. Refined saltpetre is slightly easier. Mcrcurials are unehanged. Iodine remains at 4d. Glycerine has further deelined about 10s. per cwt.

ALOES.—A marked scareity of Cape has been experienced, and the price has been run up to 10s. for finest, an advance of nearly 50 per cent. In consequence Hepatic and Curaçoa have been more freely bought, generally at some advance.

BALSAMS.—Capivi seems to be coming into sufficient supply; Peru has also turned the corner, and tends towards lower prices. It is now offered at 15s. without buyers

CAMPHOR is very flat; and sales are only effected at a reduction from last month's prices.

CUBEBS still keep up their price, but there is little business

done at those extreme figures. CASTOR OIL selling a shade easier, and almond oil is also

1d. lower. Cod liver oil is offered at 6s. 3d. to 9s. 6d., and 9s. has been paid at public auction for good quality.

CINCHONAS.-Two sales have been held since our last, both of which have passed off very flatly, but a somewhat firmer tone was given to the market last week by rather extensive private purchases. Prices are, however, barely altered from those of last month. The official statement of the stock of "medicinal bark" in London on June 30 was 66,677 packages against 37,696 at the same time last year. The present prices of quinine in London are Howard's, Ss. 9d. in tins, 9s. in oz. bottles; Pelletier's, 9s. in oz. bottles; German and Italian, 8s. in bulk.

ENGLISH OIL OF LAVENDER is expected to rule high, and there are also reports that the weather has been unfavour-

able for the rose crop in Turkey.

GUM ARABIC.—There has been a lively demand for this product, in anticipation of the probable interference with the supply unless the Egyptian difficulty should be promptly settled. It is thought that a cessation of the traffic through the Suez Canal will temporarily affect the price of shellac, which is a favourite product for speculators. Gamboge and Kino are easier, but Myrrh has advanced.

HENBANE LEAVES AND EXTRACT are scarce and dear this

year, but belladonna is abundant.

Indigo.—The quarterly sales have been conducted during the present week, and have resulted in generally lower prices, the fall varying from 3d. to 6d. Our quoted prices are those of the April sales. The reduction must be allowed for.

IPECAC and jalap have both declined to the extent of

about 2d. per lb.

ISINGLASS.—At the last sales the demand was dull, but the price of Brazil was rather more than maintained, while Eastern kinds were generally from 1d, to 2d, decline,

OPIUM.—Some uncertainty still prevails as to the probable out-turn of this crop in Asia Minor, but the estimates generally agree in placing it somewhere between 5,000 and 6,000 cases. That quantity would fully meet the world's requirements barring the Chinese and speculators. China appears to be ready to relieve the Turkey market of any surplus stock when the price falls to about 100 to 105 piastres at

Smyrna, so that in that factor there exists a fair surance against any considerable reduction. Against the sance of a rise remains the fact that all the world over the must be in holders' hands another fair average year's sully of the drug, more or less of which will come forward at aradvance. Besides being oceasionally subject to the attacks speculators pure and simple, opium seems to be a favour form obtain quasi investment with certain wealthy houses where quiture ready to hold for two or three years if necessal this fact which defeated the plans of the America syndi cate of last year. At the present moment or eminen London firm connected with the Eastern trade known to hold about a thousand cases. They are not support to have any idea of "cornering" the market, but will puably rej tain the stock until fair interest for their inviment is obtainable. The following remarks are from the reular o-Mr. R. Parker, of Smyrna, dated June 30:-

During the week 100 taskets of Karabissar opium have in taken fall

During the week 100 taskets of Karabissar opium have at the 2 account of the Dutch Government at 115 piastres per cheque which price at our present high exchange is equivalent to 12s, 4d, per 10,0b.

Ten 1 askets of soft Karabissar have also I cen placed at 11, or 12s, 15 per 1b. f.o.b.; and last week five cases of above quality were sken at the same price and 10 manufacturing at 11s. to 11s, 6d, per 1b. f.

The arrivals of new opium to date amount to 177 baskets, aimst 301. The same time last year, but the total out-torn of the crop mated with any degree of accuracy before the latter end of the barvesting in the Karabissar, Malatia, and other Noem distriction of the completed before the end of July.

The only operation hitherto concluded in new opium has 1s a control of 1s o

advance to the seller.

It is expected that American buyers will commence op ting in a new drug next week if holders are willing to accept 110ps. the curs qualities, which, with the unavoidable loss on weight at this ason of year, would be equivalent to about 115ps., or 12s. 4d. per lb. b.

OILS.—Olive averages about 10s, the tun ch per than month ago, and the demand continues very dr Line and rape have fluctuated but slightly, and ce firm fractionally higher quotations. Cocoanut has n upwa tendency, and cotton-seed oil has advanced 21. I tun sin last month. Seal, cod, and whale oils are all earer, to palest oils being especially scarce. Turpentine is asier bo for export and forward, the present quotation for eptember December being 34s. 6d., though transaction lave be made in the position as low as 33s. Petroleuis in molen abundant supply than ever, new fields havin been di covered in America. The speculators who have en anti-pating an inevitable advance have had their lcalation completely upset by the new supplies, and it is aid that to is only by the S andard Company's organisation hat price have been kept as steady as they have been,

The following were the Stocks of certain Drugs in he Pert London on June 30.

	Lit	naon o	n dune so.		
	1882	1881		882	188
Aloescs	3,164	3,047	Gnm (cont.)—		
"kegs	3	1	Benjamin., pkgs	.109	
"gourds	101	258	Damar ,	,891	
Aniseed, Star chts	451	919	Galhanum "	24	
Arrowrootcks	10,209	12,857	Gamboge "	188	
" bxs & tins	6,264	8,499	Guaiacum ,,	210	
Balsam cks, &c.	78	10	Kino "	512	
Bark, Medicinal			Kowrietns	102	72
cks, &c.	904	1,250	Mastic pkgs	217	21
", srns, &c.	65,773	36,446	Myrrh, E.I. ,,	444	691
Boraxpkgs	933	8:5	Olihanum "	761	20
Becs' Waxbls &			Sandarac ,,	i	
srns	518	1,001	Senegaltns	.563	2,11
, cks & ca	898	1,650	Tragacanth pkgs	250	18,
,, cakes	4	10	lpecaccks & bgs Jalaphls	245	21
Wax, Jap. vgtbl. rk	521	6,467	Nux Vomica pkg8	927	1,46
Camphorpkgs	6,553	7,579		1	
Cardamomschts	727	651 862	Oil—	783	Ti.
Cocc. Ind. bgs, &c.	645		Castorcks	406	10,29
Colombo root pkgs	1,794	1,110	,,	103	\$9
Cream Tartarcks	95	93	Palmtns	,363	10.94
Cubebsbgs	182	263	Cocoanuttns	.632	1,57
Dragonsblood chts	102	200	Olivecks, &c.	203	14
Galls, China and	161	3,005	Aniseedcs	321	42
Japancs Trky & Prsn sks	8,074	2,966	CassiaCs	468	1,05
TIKY OF FISH SES	0,012	2,000	Opiumchts, &c.	818	88
Gum-			Rhubarhchts	.062	45,
Ammoniac pkgs	263	301	Sarsaparillabls	317	1,68
Animi & Copal	200	001	Senna bls, &c.		
pkgs	8,036	4,480	Shellac-	235	15.22
Arabic, Barbary	0,000	-,	Orangecuto, de	602	14,000
pkgs	2,200	1,208	Garnet "	169	8.51
Turkey ,,	2,198	1,977	Button "	925	2,73!
E.I	2,572	2,829		14	1
Assafætida ,,	180	463	Vermilionchts	'	

## Monthly Price Current.

The pric noted in the following list are those actually obtained in Mincin ane for articles sold in bulk. Our Retail Subscribers must noter; to purchase at these market prices, but they may draw from them ull conclusions respecting the prices at which articles are cared the Wholesale Firms.

effered	rpe	M HOTE SE	ns Lumb.										
HEMIC	S.			1	$\frac{Last}{d}$ .	M	s.	d.			s M	onth	d.
ACIDS-			per lb.	<b>3.</b> 0	33	to	0	0	0	32	to	0	0
	ran	0		0	6	• •	0	9	0	5	••	0	9 11
Rent	Sn	dal	17	3	6	••	3	6	3	6		3	6
Dena			per oz.	0	9	••	0	0	0	9	• •	0	0
		•••••		1 3	113 2	••	0 4	0 2	2 3	0	••	0 4	2
Hyd	r lor	ic	per cwt.	4	6		7	6	4	6		7	6
Nitr	14		per lb.	0	$\frac{3\frac{1}{2}}{6\frac{1}{2}}$	••	0	4	0	$\frac{3\frac{1}{2}}{6\frac{1}{2}}$	• •	0	47
Sulp	h.c	• • • • • • •	,,,	0	1	::	ő	ò	o	1	••	ő	o
Salio	5		,,,	6	9		9	6	6	9	••	9	6
Tani	N R	nglish.	, ,,	1	£1	::	3	0 81	1	8	••	3	0
	10	oreign	99	1	$8\frac{1}{2}$		0	0~	1	7		1	$7\frac{1}{2}$
TALINO?		de	per cwt.	32 54	0	• •	0	0	32 54	0	::	0	0
ARENTO				24	6		0	0	24	6		0	0
	rd	er	, ,,	10 127	9	٠.	0 137	6	10 127	9	• •	0 137	6
MAZMSTO.	ol	l	per ton per cwt.	8	9	::	9	6	8	9	••	9	6
	lo	ar	93	10	6	• •	12	0	10	6	• •	12	0
refined	NI.	Germar		104	0		115	0	90	0		105	0
grade l	1,710		, ,,	70	0	::	75	0	65	0		70	0
DB IF OB	и.		per lb.	10	6	••	0	0	10	0 4	• •	0	0
. 1	res in	ned	per oz.	0	6	::	0	0	0	6	::	0	0
LIGNES	A, lo	ined	per lb.	1	0	• •	1	6	1 5	0	• •	1	6
LERCUR	T I	ls	per bott.	118	9	•••	0	0	118	9	••	0	0
	11	fd	per lb.	2	11	•••	0	0	2	11		0	0
E MISSIA	v 1 7	hite	,,,	2	10	• •	0	0	2	10	• •	0	0
- ANTONI	NE .			14	6	• • •	17	0	14	6	••	17	0
AN OF A				10	0	• •	0	0	10 22	0	••	0	0
		• • • • • • •		22	0	•••	0	0	22	0	••	0	0
Alum .		•••••	per ton	122	6	٠.	125	0	122	6		125	0
. Ammo	DOM I	• • • • • • • • • • • • • • • • • • • •	• ••	137	6	• •	0	0	137	6	• •	0	0
Carl	on		per lb.	0	61		0	61	0	61		0	61
Million	CITTO:	e. cruae		con	^		760	^	600	0		760	^
Solphi	ta i	• • • • • • • • •	per ton	600 4(5	0	•••	760 420	0	405	0	• •	420	0
- INUL U	ape;		ner cwt.	87	6		96	0	87	6	••	96	0
ME O	nor	rad	• 33	70 35	0	••	85 42	0	70 35	0	• •	85 42	0
machin				4	9	• •	5	0	5	U	•••	0	0
WAX, 1	STITUTE	efined.		69	7	• •	62 0	0	60	7	• •	62	0
BRUE SA	UNDE	9		4	5	••	4	7	4	5	•••	4	7
aper:	TICL	ch's	• 33	5	6		6	0	5	6	•••	6	Û
Balph	ite.		per cwt.	19	9		20	0	19	9		20	0
Mpra	s, gr		per ton per lb.	42	6		45	0	42	6		45	0
I MAD I	arta	nate	per lb.	121	0	• •	122	6	120	0	• •	$\frac{0}{122}$	0
II mom S	2.2	rown .	per cwt.	106	0		0	0	106	0	::	0	0
onler.	Salts		• 33	3	6	• •	4	6	3	6	• •	4	6
of Menesi	2:	rbonat	• ,, e	40	3	••	5	3	40	0	••	5 0	3
Fond,	LI W			72	0		0	0	72	0	• •	0	0
is hospha	MIS	*****	. per lh.	7	3 11	::	7 2	6	7	3 11	•••	7 2	6
IE Black						••					•••		-
				0	6	••	0	0	0	6	••	0	0
50 Pot	ashe	Canada	3,										
y Per	AT BR	Canada	.per cwt.	29	0	••	29	6	29	0	••	29	6
				46	0		0	0	46	0		0	0
	rate. siate		. per 1b.	0	53		0	0	U	51	• •	0	5 ê
			. 33	0	10	••	0 2	111	0	10 11	••	0	11 1
F Potace	Date.		99	9	0	•••	10	6	9	0	••	10	6
Bron	nide			١,					1				7
Chlo	ride.		per cwt.	1 9	6 U	••	0	7	9	6	::	0	Ú
- Dainis			• per in.	6	0		Ü	ŏ	6	Ü		Ü	0
Solp	bate,	tish.	in										
Spir	ottles		. per oz.	9			0	0	9	0		0	0
Sul	phate	man,	n per oz.	9		• •	0	0	9 8	0	• •	0	0
5 Bal 4	mmo.					••	Ω	9 <del>1</del>	0	9	::	0	91
DELTO	Ptro .	Print	per lb.	. 44		••	45	0	44	0		45	0
Bes	feat	e 4											
Q.	· md	er cent.	. ,,	20	9		21	3	20	6		21	3
7		1											

IND DRUGGIST.								01:	,
Soltmotus (cont)	1	Lac	+ 1	lonth		Th L	. 30	anth	
Saltpetre :—(cont.) Bengal, over 6 per	8.	d.		* d.	8.	d.	3 20	onth	d.
centper cwt	19	6	to	20 6	19	6	to	20	3
British, refined ,,	26	0		27 6	25	6		27	0
Soda: Bicarbonate ,,	9 45	3	• •	0 0	9 45	3	٠.	0	0
Hwds ,, Carbonate:	30	U	• •	0 0	30	0	• •	U	U
Soda Ashper deg	0	11/2		0 0	0	15		)	0
Soda Crystals per ton	61	3		0 0	62	- 6		- 1	- (1
Caustic	9	3	• •	9 9	9	3			9
Hyposulphiteper cwt.	8 13	6	• •	13 9	13	45	• •	13	6
Nitrate,	12	0		14 0	12	0		14	6
Zinc Sulpbate, Sugar of Lead, White ,, Brown ,,	36	0		0 0	36	Ü		38	Ŏ
Brown ,,	26	0	٠.	0 0	26	0		0	0
	0	8		1 2	0	8		1	2
VERMILION, English ,,	2 3	5	• •	0 0	3	5	* *	0	0
DRUGS. China ,,	0	U	• •	3 1	0	0	• •	3	, 1
Alors, Hepatic per cwt.	60	0		140 0	70	0		145	0
Socotrine,	55	0		160 0	55	0		160	0
Cape, good ,,	52	0		60 0	80	0		90	0
Inferior,	48	0	• •	51 6	50	0		79	0
Barbadoes ,, Curaçoa ,,	60 45	0	• •	$\begin{array}{cccc} 140 & 0 \\ 120 & 0 \\ \end{array}$	60 55	0	• •	140 110	0
Ambergris, grey per oz.	90	o	• •	120 0	90	Ü		120	0
BALSAM—			•••						
Canada per lb.	1	6	٠.	0 0	1	6		0	0
Capivi,	2	4		2 6	2	3		2	6
Peru,	16	0	• •	17 0	16	0	• •	17	0
Tolu, BARKS—	2	3	• •	2 4	4	3		2	4
Canella albaper cwt.	16	6		22 0	16	6		22	0
Cascarilla,	16	6		18 0	16	6		18	0
CINCHONA-	_	^							_
Peru, gray per lb.	0	8	• •	1 8	0	8	• •	1	8
Calisaya, flat,	3	9 9	• •	3 U 5 9	1 3	9	• •	3 5	9
Carthagena ,,	0	6	::	3 6	0	6	• •	3	6
Columbian,	ő	5		3 3	ő	5		3	3
Cuprea,	0	5		2 10	0	5		2	9
New Granada ,	1	0		6 U	1	0		5	9
Pitayo & Maracaibo "	0	4	• •	2 9	0	4	• •	2	6
Red	1	9	• •	10 0 6 7	1 0	9	• •	10	7
,, red,	0	6	• •	5 9	0	6	• •	5	9
BUCHU LEAVES,	0	5	• •	1 5	0	5		ĭ	5
CAMPHOR, China per cwt.	80	0		0 0	77	6		0	0
Japan	85	0		0 0	82	6		0	0
Refin. Eng per lb. Tablets ,,	1	$\frac{3}{2}$	• •	0 0	1	31/2	• •	0	0
CAMPILIDIDE China	2	3	• •	0 0	1 2	3	• •	0	0
., Russian	3	6	• •	3 10	3	9	• •		10
CHAMOMILE FLOWERS. per cwt.	15	6		70 0	15	6		70	0
CASTOREUM per lb. DRAGON'S BLOOD, lpper cwt.	17	6		30 0	17	6		30	0
DRAGON'S BLOOD, Ipper cwt.	45	0	• •	210 0	45	0	• •	235	0
ERGOT OF RYE per lb. FRUITS AND SEEDS (see also	0	9	• •	1 6	0	9	• •	1	6
Seeds and Spices)									
Anise, China Starper cwt.	97	6		100 0	100	0		105	0
Spanish, &c,	20	0		3) 0	20	()		30	0
Beans, Tonquin per lb.	3	0		5 0	3	0	٠.	5	0
Cardamoms, Malabar,		2		7 6	-	2		-	0
good,	5 3	3	• •	7 6 5 0	5 3	3 0	• •	7 5	0
Aleppy ,,	2	6		5 6	2	6		5	6
Magras ,,	2	6		5 0	2	6		5	Ü
Ceylon	1	9		3 0	1	9	٠.	3	0
Malabar sorts ,,	2	6	• •	6 10	2	6	• •	6	3
Cassia Fistulaper cwt. Cocculus Indicus ,	9 10	0	• •	15 0 11 0	9 10	0	• •	15	6
Colocynth, apple per lb.	1	Ü	••	1 3	1	0	• •	10	3
Croton Seedsper cwt.	50	0		55 0	49	0		0	0
Cubebs,	180	0		200 0	2 0	0		0	0
Cummin	35	0	• •	36 0	35	0	• •	36	0
Fenugreek ,, Juniper Berries ,,	9 10	0	• •	12 0 10 6	9 10	0	• •	12 10	6
Nux Vomica ,,	8	6	::	10 0	6	0	• •	9	0
Tamarinds, E. India ,,	8	0		14 0	8	Ü		14	0
West India,	11	6		14 6	13	6		15	6
Vanilla, large per lb.	16	0	• •	24 6	16	0	• •	24	6
inferior,	10 40	6	• •	15 6 5) 0	10	б 0	• •	15 50	6
Honey, Chiliper cwt.	34	0		44 0	32	Ü	• •	43	0
IPECACUANHA per lb.	3	10		4 6	3	7		4	8
Isinglass, Brazil,	2	3		4 6	2	3		4	7
Tongue sort ,,	2	6	• •	5 7	2	6		5	7
East India,	0 2	6 4	• •	4 13	0	6	• •	4	10
West India ,, Russ. leag staple ,,	7	U	• •	4 5 10 3	7	6	• •	10	5 3
inferior ,,	ó	0		0 0	ó	0	• •	0	
, Simovia,	2	2		2 4	2	2		2	4
JALAP, good,	1	0		1 2	0	11		1	0
inter. and stems "	U	10	• •	0 11	0	9	• •		10
LEMON JUICE per deg.  LIME JUICE per gall.	0	6	• •	1 9	0	6	• •	0 1	9
Liquor. 3E, Spanishper cwt.	0	6 U	• •	0 0	1 0	6	• •	0	0
Liquorice Root ,,	0	0	• •	0 0	0	0		0	0
	4	6		5 (	4	6		5	Ü
MANNA, flaky per lb. MUSK, Tonquin pod per oz.	30	0		77 0	16	0		75	0
Grain,	45	0		70 0	40	0	• •	70	0
Yunan pod ,,	10	0	• •	4) 0	32	0	• •	46	0
OILS (see also separate list) Almond, expressed per lb.	1	4		0 0	1	3		0	0
Castor, 1st pale	0	3 §		0 4	0	35		0	4
second ,,	0	31		0 31/2	0	31		0	3
Cod-liverper gall.	8	0	• •	9 6	6	0	• •	9	0

Tt doth

£ | L | L |

0 | L |

0 | L |

75 | C |

32 | C |

33 | C |

34 | C |

35 | C |

38 | C |

39 | C |

30 | C |

31 | C |

32 | C |

33 | C |

34 | C |

35 | C |

36 | C |

37 | C |

38 | C |

37 | C |

38 | C |

38 | C |

800 000

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020				111		- 0.			10		_
		aat	34	onth	1	т	his	Mai	nth		ī
Essential Oils:	8.	$d_*$	111	s. a		s.	d.	MI.OI	8.	d.	l
Almond per lb.	30	0	to	0 (		30	0	to	0	0	ı
Anise-seed, star ,,	7	6	• •		0	7 11	6	• •	0	0	١
Bergamot,	8	6			0	8	6		0	0	١
Cajeputper bott.	3	0	• •		4	3	0	• •	3	4	l
Caraway per lb.	3	11	• •		6	3	0	••	6	6	ł
Cassia ,, Cinnamon per oz.	3	11	••		0	1	11	• •	3	0	I
Cinnamon-leaf	0	21			3	0	27		0	3	I
Citronclle,	0	$2\frac{\tilde{1}}{2}$	• •		0	0	$\frac{2\frac{7}{2}}{0}$	• •	0	0	l
Clove, Juniper,	6	3	• • •		$\frac{0}{0}$	6	3	••	8	0	ı
Lavender, Exotic per lb.	2	6		6	9	2	6		6	9	I
" Mitcham "	120	0	• •		6	120	3	••	125	6	1
Lemongrass per oz.	0	21	• •		0	0	21	• •	0	0	ŀ
Neroli ,,	6	6		9	6	6	6		9	6	ı
Nutmeg,	0	5	• •	0	6	0	5	• •	0	6	Í
Orange per lb. Otto of Roses per oz.	6 18	6		9 49	0	18	6 0	• • •	9 <b>4</b> 0	0	١
Patebouli,	1	4			6	1	4		2	6	ı
Peppermint:	- 11					11					ı
American per lb. (H.G. Hotchkiss) ,,	11	0	• •	0	0	11	6	• •	0	0	١
Englisb	23	ő		0	0	23	0	• •	0	0	1
German ,,	13	9		. 0	ŧ.	13	9	• •	0	0	ı
Japan, Rosemary,	7 3	0	• •	4.5	0	7 3	0	••	9	0	İ
Sassafras,	2	6		Ď.	Ü	2	6	::	0	0	ı
Spearmint	10	0		11	1	10	0		11	0	-
Tbyme ,, Mace, expressed per oz. OPIUM, Turkey per lb.	1 0	9	• •	0	3	$\frac{1}{0}$	$\frac{9}{2}$	••	4 0	2	-
OPIUM, Turkey per 0z.	13	6		10	6	13	6		16	6	-
,, inferior ,, QUASSIA (bitter wood) perton	12	0		13	0	12	0	••	13	0	j
QUASSIA (bitter wood) perton RHUBARB, China, good	80	0	• •	100	U	80	0	••	100	0	
and fine per lb.	2	6		4	(	2	4		3	9	-
Middling to fair ,,	1	9		2	3	1	3		2	3	-
ROOTS-Calumbaper cwt.	16	0		20	0	16	0		19	0	ı
China,	22	0			1	22	0		24	0	ı
Chiretta per lb.	10	4	• •	7.1	6	10	0	••	$\frac{0}{11}$	6	ı
Cus-Cusper ewt. Galangal,	20	0		9	(	20	0		23	0	ı
Gentian,	19	0		21	0	19	0		21	0	ı
Orris,	25	0	• •	70	0	23 42	0	••	50	0	ı
Pellitorypcrlb.	42	0 10	• •		0	1	0 10	••	60 2	0	١
Rhatany	Ū	2		43	4	0	2		ō	4	١
Ceneka	2	7		2	9	2	5		2	8	
Snake	50	8	• •	E 0	0	50	7	••	£2	9	
SARSAPARILLA, Lima per lb.	0	£ 1/2	• • •	^	6	0	£		ĩ	ŏ	-
Gnayaquil ,,	1	5		. 1	7	1	4		1	7	
Hondnras " Jamaica "	1	3	• •	0	2	1	<b>4</b> 6	••	1 2	8	
Sassaerasper cwt.	0	0		0	0	0	0		ű	ô	
SASSAERAS per cwt. SCAMMON Y, Virgin per lb.	30	0		32	(	30	0	••	52	0	
second and ordinary ,, Senna, Bombay,	10	0	• •		3	10	0	••	28	0 3	i
Tinnivelly	0	1		- 1	2	ő	11		0 1	2	
Alexandria	0	11		. 1	0	0	11/2		1	0	
SPERMACETI, refined ,.	0	0	• •		0	0	10	••	1	0	
American	0	9 1	• •		6 13	0	9 03	••	0	0 1½	
		•	•		- 4			•••		-2	
GUMS. Ammoniaci, drop per cwt.	£	8.			3. 5	£			£	3.	
Animi, fine washed,	17	10 0	• •	70 1	5	17	10		2 18	5 10	
soits,	11	10		14	0	11	10	••	14	10	ĺ
ARABIC, pale ricked "	1	13	• •			1	13	••		16	
TURKEY, pick. gd. to fine ,,	1 5	9 10	• •		0	5	9 10	••		12 10	
second & inferior ,,	2	5		5	0	2	5		5	0	
ASSAFCETIDA em to fin	1 0	15	• •	9 1	0	0	10	• • •		10	
Benjamin, Siam, 1st	0	10	• •	6.1	.0	U	10	••	3	10	
& 2nd,	15	θ			0	15	0		30	0	
Sumatra,	5	d 0	• •			5	0	••	10	10	
COPAL, Manilla,	s. 15	$\frac{d}{0}$		s. d 70	0	15	. d.		s. 70	d. 0	
Angola, red	145	0		152	6	145	0		152	6	
DAMMAR, pale " EUPHORBIUM	90	0	٠.		U	90	0	••	95	0	ı
GALBANUM per Ib.	20	3	• •		0	20	3	••	24 0	0 10	ı
GAMBOGE, picked pipe per cwt.	295	0		3€0	0	280	0		340	0	ı
KINO per lb.	57	$\frac{9\frac{1}{2}}{0}$	• •		6	0 50	$\frac{9\frac{1}{2}}{0}$	••	$\frac{2}{54}$	0	1
Kowrie, sorts	50	0			ti U	50	0	::	60	0	J
Kowrie, sorts	100	0		240	Ö	100	0		240	0	
MASTIC, picked per lb. MYRRH, good and fine per cwt.	$\frac{2}{102}$	0	• •		6	120	0	٠.	3	6	
ordinary to fair.	75	6	::		0	80	0		190 117	0 6	1
OLIBANUM, p. drop	49	0		64	0	49	0		64	0	1
amber & yellow ,, SENEGAL,	44	0	• •		0	44 30	0	••	48	0	1
DANDARAC	30 1(0	0	::		6	102	6	**	$\frac{40}{127}$	6	1
SHELLAC, Orange	130	0	::	137	б	127	6	• •	135	0	1
Thus	97	6	••		9	93 15	0	••	115	0	Į
TRAGACANTH, leaf	$\frac{15}{280}$	0	::	17 ( 400 (	8	280	0	••	17 400	0	ļ
in sorts,	40	ŏ	::	270		40	^		270	ō	1
	£			c.		c					1
SEAL, pale per tun	± 32	8. 0		£ s	o I		s. 0		£	8. 0	1
, a second production of the second production											

1	Last Month	
Oils:—(cont.)		
SEAL vellow to tinged pertun	£ 27 0 to 29 10	
SEAL, yellow to tinged pertun	00 0 00 10	
brown,	0.0	
SPERM	D1 0 0 0	
Cod	00 0 00 0	
WHALE, South Sea, pale ,,	28 0 29 0	
yellow "	27 0 27 10	
brown ,,	23 0 24 0	
East India, Fish ,.	0 0 0 0	
OLIVE, Seville per ton	38 10 39 0	
Gioja,,	39 10 40 0	ı
Levant,	38 0 28 10	Ą
Mogador ,,	38 0 0 0	ı
Spanish ,,	00 10 00 10	ı
0: -:1-	1.0 0 00 10	ı
Cocoanum Coohin	24 0 25 0	ı
COCOANUT, Cochin "	05 0 5 5	ı
Ceylon ,,	00 0 00 "	1
Mauritius ,,	29 0 29 5	ı
PALM, fine,	33 0 33 10	1
LINSEED ,,	23 12/6 24 0	1
RAPESEED, English, pale ,,	30 0 3) 5	1
brown ,,	28 0 28 5	Ī
COTTONSEED,	25 0 26 0	ı
LARD	61 0 62 0	1
	00.10 45.0	į
TALLOW,	s. d. s. d.	1
TURPENTINE, American per cwt.		ı
		1
Petrolelm, refined per gall.	0 5 3 0 5 1	1
Spirit	$0 7\frac{1}{2} 0 8$	1
		1
SEEDS.		1
CANARY per qr.	50 0 75 0	1
CANARY per qr. CARAWAY, English per cwt. German, &c. ,,	0 0 0 0	1
German, &c.	58 0 29 0	1
CORIANDER	10 0 04 0	1
HEMP	90 0 90 0	1
HEMP per qr. LINSEED, English ,		1
Diods See Stand	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1
Black Sea & Azof ,,		1
Calcutta ,,	44 0 0 0	I
Bombay,	44 9 0 0	1
St. Petersburg ,,	44 0 0 0	İ
Mustard, brownper bshl.	0 0 0 0	Ī
wbite	5 0 10 0	ł
POPPY, East India per qr.	40 9 0 0	1
		ı
SPICES.		ı
CASSIA LIGNEA per cwt.	36 6 0 0	ı
	ur 0 02 0	1
Dude	45 0 47 0	1
Craw areas Carles . ,,	45 0 47 0	ł
CINNAMON, Ceylon:	- 0 0 "	ı
1st quality per lb.	1 0 2 5	ı
2nd do ,,	0 10 1 5	ı
3rd do ,,	0 9 1 3	ı
Tellicberry,	0 0 0 0	ı
Chins	0 13 0 5	ı
CLOVES, Penang ",	1 9 2 1	j
Amboyna	0 101 1 3	1
Amboyna ,,, Zanzibar ,,,	0 0" 0 10	ı
Canara lam fine per out	0.000 0	ı
GINGER, Jam., fineper cwt. Ord. to good,	40 0 00 0	ı
ord to good ,,	00 0 0 0	ı
African,	0.0	ł
Bengal,		ı
Malabar,	0 0 0 0	l
Pepper, Black, Malabar per lb.	34 0 110 0	l
PEPPER, Black, Malabar per lb.	0 6 0 1	ı
Singapore,	0 51 0 54	ı
White,	0 tg 0 0	ı
Cayenne	0 8 1 4	Į.
MACE, 1st quality	1 5 2 0	1
2nd and interior ,,	1 3 1 4	ı
NUTMEGS, 78 to 60 lbs. ,,	2 7 8 8	ı
00 90	0 4 9 8	ı
		ı
132 95 ,, ,, PIMENTA	1 10	
	0 3 . 0 4	
VARIOUS PRODUCTS.		
COUHINEAL.		
	0000	
Honduras, black per lb.	0 0 0 0	
,, silver ,,	0 0 0 0	
Mexican, black,		
" silver "	1 4 1 9	ı
Tenerine, black	0.01	ı
" silver "		ı
GALLS, Tky blue,	100 0	d
China	9 0	
INDIGO, Bengal	0 0	
" Madras "		
Kurpah		Section 1
" Oude "	W 0 4. W 0	9
	3 4 7 0	
ROSIN American per cwt	6 0 10 0	
SOAP Castile	28 0 0 0	
SOV Chine per cell	1 14 1 10	
WAY Pres English nor out	cs ( £9 0	
ROSIN, American per cwt. SOAP, Castile soy, Cbina per gall. WAX, BEES, English per cwt.	6 5 . 7/7/6	
Fact India	5 10 6 0	
East India ",	9 9 2 10	
VEGETABLE, Japan "	3/7/6 0 0	ľ
WOOD, DYE, Bar per ton	0 0 1	1
Brazil,	00 0	1
Cam ,,	11 0	1
Fustic, Cuba ,,	F/10/6	
Jamaica "	0.5	
Logwood, Campeachy ,,		
Tamaniau	4 7/6 5 4	
True first nile	10 5 11 10	ı
RED SANDARS	7 10 0 0	ľ

d, the or not :-



Cultation of Cinchona-Schrottky's Experiments. Chemisad Druggist.

-Reler to Dr. Cochran's letter to the Analyst inserted in your (p. 2), the following information may be of some interest. we just inpleted the analysis of two sets of succirubras, each set ung of trees-one set being treated according to Mr. Schrottky's

<u> </u>					Det arc	Alter
Quinin			• •	 	1.00	 1:04
Cinche	din			 	2.41	 2 13
Cinche	n			 ٠.	1.37	 1.39
Quinic				 	0.02	 0.11
Amer	us			 ٠.	0.60	 0.60
		Total		 	5.40	 5.27

ally thewo sets are identical, and are remarkably accordant for of sime trees. Possibly Mr. Cochran did not have the oppor-I analyg such a large quantity of trees; and experience has at two ccirnt ras, identical as regards age, appearance, growth, er very idely from one another in the percentage of quiniue, &c. mame he it is possible that this particular set of trees were not stable favourable conditions for enjoying the benefit of Mr. or's nowins, and that later on we shall find that he is right in

wowing nalysis of some "by hrids," &c., forwarded at the same Ceyle may also be of interest :-

L-Six-y old tree, Pata de Galinazo type.

L Dark ining leaf, succiruhra shape, but not wrinkled.

.-Hyt, succiruhra type.

ord, E.

-Hybr pendant-hranched, condaminea type of leaf, rough hark. ears old.

Hyb, a good deal of officinalis type.

-Byb's Nos. 1, 2, 3, and 4. Six to seven years old.

	Ne		No.	2	No. 2	B	No.	3	No. 3	В		No.	6B	
											1	2	3	4
1	I.		1.21		0.84		1 65		2.68		3.11.	1.79	2.79	3.61
hid u	4-1		1.1	ι.	. 1.05		2.62		3.81		1.92	1.89	3.88	4.78
nin	0 8		2.43	١.	. 2.24		0.30		0.37		0.73	2.15	1.03	0.41
													trace	
													0.62	
	-	1		-										
al	7.6		6.51		. 4.99		5.20	٠	6.12		6.04	7.02	8.35	9.39

I am, sir, yours faithfully,

JOHN HODGKINS.

Mark; Ink .- Viridis writes as follows:-" Redwood's a for meing ink, published in a recent number, differs from the ation une the same name hoth in Cooley and Beasley. Please and state hich is the one likely to give the hest result." In the ace, may gently insinua te that "Viridis" probably knew which be calle "recent," and that we did not? A single word would told us to k in the January number, and would have saved us a through me 30 pages in six different numbers. The formulæ In Cooley 1 Beasley are clearly copied from the same authority. e we publed was taken from Professor Redwood's original paper, ad in 184 We have not yet discovered the source of the other s, but the ference hetween the two involves such an important in the majacture of marking inks that we print them side hy

Silver uitra	n
Btartrate untash	
Btartrate untash	
Btartrate untash	
Strong light.	
Jignor ammoniæ	
Liquor amplie	
AICH	
" Lite Sigs	
Townered c	
Distilled w r	
assumed W.T q.S q.S.	
Fina oduct 3vj.	

and Cov direct that the silver nitrate and cream of tartar the mbbed ether in a Wedg wood mortar, the liquor ammoniae ted, and the duct, after complete solution and the addition of the

sugar, gum, and archil, to be made up with distil'el water to 6 fl. oz. By this process the whole of the nitric acid in the silver salt will be converted into jotassium nitrate and retained in the finished ink. When the ink-marks are heated the nitre in them will attack the fibres of the fabric, and will citber destroy them so that they will break up like tinder on the least handling, or damage them so that holes will be left instead of marks a'ter a few months use.

Redwood, on the other hand, directs the silver nitrate and sodium carbonate to be separately dissolved, the solutions mixed, and the precipitate of filver carbonate carefully washed. This removes all but small traces of the nitric acid without any outbalancing disadvantage. The moist precipitate is subbed in a Wedgwood mortar with the tartoric acid nutil effervescence eeases, the strong liquor ammonia is added, and a solution of ammonio-tartrate of silver is obtained, free from nitrates. The advantage here is elearly on the side of the original formula, the one we published in January. The other is an unscientific attempt to shorten the process, for which we do not believe Professor Redword is responsible. Fulminate of silver, a very dangerous compound, might possibly he formed by Beasley & Cooley's process, but this could never barpen with Redwood's. The use of dilute in place of strong solution of ammonia is a matter of detail. The use of ten drachms of gum and six of sugar in place of Redwood's twelve drachms of gum and four of sugar may, Jerhaps, make the ink flow more treely from the pen, but it will increase its tendency to deposit.

14/65. Precipitate.—The best published formula for soluble essence of ginger is given in our last January number, page 50; that for soluble tincture of lemons for accated waters in September, page 426.

14 53. Herbaria. - Mr. Thomas Maben, of 5 Oliver Place, Hawick, has sent us a leaflet containing suggestions for " The Preservation of Plauts for Herharia," compiled for the use of the Hawick science students. He says he will be glad to send a copy to "Ferward" or any other young botanist on receipt of a stamped addressed envelope. We recommend all whom it concerns to accept this kind offer. They are sure to get some new ideas from it.

14 '53. Dias Cordial is probably a corruption of the word Diascordium. This was an electuary in all the Pharmacorwias a century ago, and took its name from the small proportion (1 in 271) of the leaves of Teuerium Scordium it contained. It was a mild epiate containing one grain of opium in nine or ten scruples. By another step in the dark, diascordium has been confused with diagodium, otherwise called syrupus c megonio, now known as syrup of poppies. When diacodium or diascordium is now asked for chemists generally supply syrup of white poppies, sometimes adding a drop of essence of peppermint to flavour it.

#### Curiosities.

Mr. Wilford (Dover) sends us the subjoined order received from a French-

A physic for one fisticuff upon the eye received and who determine a bloot deposit

Prayer of here write the employment and price Ec must not of Leechs

The following is sent us from Rochdale:- "A pen'orth of straw and soot." After a little questioning as to its use, creasete was handed.

10,69. Liverpudlian favours us with a small collection of orders received by him. They include "alabo powder," "parry goraek," "black hogshead manganese," "4 oz. junction root," "two pennyworth of cashear, it is that stuff in the place of oil of senement," "eostick," "oil of duliper," "corrosive off supplementary off mercury."

#### To Prevent Fly-bites.

To The Chemist and Druggist-

SIR,-In answer to "12,13 (Physeter)," I find a few drops ol. origannm subbed over the hands and face the very best thing for flies (or midges, which are more troublesome). I think his young lady friend with a small phial of the above in her poeket to use cocasionally would keep all the flies away, so that she could enjoy her picnic in comfort.

Yours, &c.,

Bites of Insects .- Mr. Stevenson, of the Army Medical Department, says (Edin. Med. Jour., Feb. 1882), regarding mosquito-hites, that the application which he has found most effectual is to smear the hands where bitten with a moist cake of soap, and allow the thin lather to dry into the skin. He has frequently resorted to this for relief, and has found that all itching and pain disappeared in 10 or 12 minutes after the application was made, and did not again return. Besides being effectual, it has the advantage of heing at hand and easy to use.

The Madras Mail says that the application of heat to the part affected is a simple and certain cure for scorpion stings. A writer in the Ceylon Observer adds that moistened quicklime or chunam, as it is called in Ceylon, is a sovereign remedy for all stings, including the sting of a scorpion, and the next best thing is a ponltice of ipecacuanha. For snake bites excision of the part is said to be the only remedy.

Midge Bites .- The following is an excellent application :-.. 3ij. Ol. eucalypt. Ol menth. pulegii 31i. Acid. carbelic ... 3j. Acid. acet. glac. 3ss. . . Spt. camphor. (Rubini) 3:S. .. Olei ricini, ad ... Ziv. Hawick. T. MABEN.

#### Strychnine Poisoning.—Treatment of Dogs.

To The Chemist and Druggist -

SIR,-I observed in your issue of March 15, 1882, page 144, an article on the treatment of dogs poisoned by strychnine. I have cured several cases with a decoction of tohacco water; have taken a dog when as stiff as an iceberg, sat him up, and poured about a tablespoonful of a strong watery solution of totacco into his mouth, and have seen the animal run about quite cuted in 10 minutes. As to administering chloroform by the dog's skin, that is impossible nuless the skin is first scarified, as a dog has no peres in its skin, and therefore perspires by its tongue. I have never yet seen a hlister act on a dog unless there is ground glass in it, which lacerates the skin, and then the hlister acts. You will excese this intrusion, but seeing that your journal is ofen to disseminate knowledge, I venture to draw your attention to the above facts. I am,

Sydney, N.S.W., May 15.

W. MOORE. [A great French physiologist-we believe it was Claude Bernard-has found that chloroform dropped on the skins of guinea pigs produces general anæsthesia. We imagine that the chloroform is absorbed, not through the pores, but through the substance of the skin, and we should still be inclined to try the effect of the application if the tohacco, which seems a simpler remedy, happened to fail or to be not at hand.—ED. C. & D.]

17/9. J. K .- One of the hest recent works seems to he Taft's "Practical Treatise on Operative Industry," 3rd edition, Churchill's, 18s.

17/30. Nomo. - Dye can be made to penctrate cane only by a vacuum apparatus, which will withdraw the air from the pores of the material, and allow the dye-liquor to take its place. The appliances used for saturating wood with preservative chemicals would probably answer. We do not know of anything which can be added to the dye to stiffen the cane.

17/43. Intending Competior. - The examination papers of the last few years show that Jacob Beil scholars are required to have such a knowledge of French that they can read even difficult poetry and prose with ease. We can hardly recommend hooks for the literary studies required. For chemistry and pharmacy we should recommend Roscoe's "Chemistry" and Attfield's "Chemistry;" for hotany, Oliver's "Elementary Lessons" and Bentley's "Manua'."

17/18. A'pha. - No formula for Mona houquet seems to have heen published.

Clear Glycerine Jelly can be made easily by dissolving ten of Nelson's gelatine lozenges in 4 oz. of glycerine and 4 oz. of rose water, mixed.

17/69. W. F. H. Gold Lacquer on Metal.-Kayser recommends the following as very hald and remarkably fine coloured gold lacquer for metals :- A clear solution of shellac is mixed with picric acid (quantity not mentioned), and ahout half a per cent. of crystallised horacic acid.

Gelatine Suppositories - J. W. C. (Owenstown, Ky., U.S.) wants the lest formula for the above so they will he firm and soluble.

We helieve the proportions used by probably the largest makers of these suppositories are 1 part of gelatine and 4 parts glycerine. The gelatine is first soaked in water for a short time, and then dissolved in the glycerine by the aid of heat. In these proportions much will depend upon the manipulation as to the suppositories being both firm and soluble, and experience probably can only determine the length of time the gelatine should be soaked and the amount of heat which should be applied to issolve the gelatine in the glycerine.

17/22. Ammonia Liniment -J. I. J. (Notts) writes:-" Assistant (13/3) can prevent its thickening by the addition of a little glyine, sho 4 drachms to 1 lh. of liniment.

"It remains permanently fluid for any length of time, but lergon, put other change.'

192/29. J. E. Eastman writes :- "In reply to 'Assistant' (1), 1 work suggest that he first make the liq. ammon., using liq. calcis e aq. di To the liq. ammon. so made let him gradually add ol. nucis ol. oli shaking on each addition, and he will have a beautifucteamliuiment that will not thicken on keeping."

#### Another Warning to Chemists and Drug ts.

Referring to a letter we printed last month under the eve head concerning the unsatisfactory conduct of a firm at Norwi who h advertised certain medical specialties, we have another ler allow apparently to the same firm, signed "G. F. Dewshury." however, that we cannot publish such complaints except va the exact particulars are given us.

Mr. Hyne (Glasgow) writes that he has heard of two othe hemista. have experienced from the Norwich firm somewhat simila reatment that which he complained of. One of these resides in Glasg, the o in Mansfield.

Mr. J. E. Eastman (Tottenham) writes us that he had son trouble the same firm, but that, on remonstrating strongly, he had tained the firm a supply of hills with his name on.

18/41. Nikoldoh wants to know how to make the liquid hich and ink-hlots from paper immediately without leaving the slight stall

19/21. A.H.—The rough rule for calculating the contents; otto is to take 10 Turkish drams as equal to 1 English ounce. and Druggist, 1879, p. 360, for further particulars.

16/49. Naval and Military Dispensers.—Inquirer, there 15 dispensers in the employ of the Admiralty, nine at home ad six a at the various hospitals. No dispensers are kept on bor men-of Application must be made to the Director-General of the dical De ment of the Navy, and when a vacancy occurs candidates no must the minor qualification) are ordered to attend at the Adminy Office. hegins at 5s. a day.

The Army Hospital Corps provides all compounders (medicine ployed under the Army Medical Department. There are penings limited number of young men, between 19 and 28 years age, no than 5 feet 5 inches in height, and 34 inches round the cat. Par mences at 1s. 2d. a day for privates, with extras for got conduct rises to 38s. 6d. a week for sergeant majors. A further alyance of year is made to all ranks, but payment is deferred until a soldier pletes his army service. Pensions on discharge are issued er compl 21 years' service, varying from 8d. to 4s. 6d. a day for c. numerous opportunities of rising from the ranks. Furthe articular he obtained by applying personally to the Staff Office, rmy Ho Corps, 6 Whitehall Yard, S.W., or to the Recruiting Office army Ho Corps, 43 Room, Horse Guards, S.W.

### Liq. Opii. Co. Squibb 1869.

9/52. F B.—Take 1,543 grains powdered opium, mix it prooghly with 20 fl. oz. of water, added a litt'e at a time with vigoro streing, a smooth paste has been formed, the remainder heing ad at once thoroughly stirred. Leave the mixture for several irs. Filling through four thicknesses of filtering-paper into a 16-oz. ta capsule was water hath. Rinse the vessel with water and wash the ne on the with 6 oz. of water. When drained return the marc to tl mixing. add 1.67 fl. oz. or 50 c.c. of water, stir and pour ba into the land rinse the mixing-vessel with 5 oz. of water and pour the shings of filtrate. The residue may then he thrown away, or dr and weg The evaporation will have continued as fast as the filtra, and requipe about eight hours. Weigh the extract in the capsule s add watmake it up to the original weight of the powdered opium eating on water-hath till a solution is obtained; add water to mak p the los evaporation. Add 6 ft. oz. of stronger alcohol and hest t soiling on water hath. Pour this slowly with active stirring into 12 oz. of stro alcohol and set aside for 12 hours. Pour off the clear s bolic solt and distil off the alcohol in a small tared still. To the tract that and the solution of t mains in the still add enough water to make it weigh 1,54, and her the water hath till dissolved. Pour into an 8-oz. bottle, sing the with a few drops of water. When cold, add 3 f. oz. c trooger et

July 15, 2.]

THE CHESTION HAD DICOGGET.

ether to separate, and pour it off as closely as possible.

next this to more, mix the three portions of ethereal solution, and
tor the sake of the ether. Evaporate to half its bulk the
setter aft after washing with ether, pour it into 10 oz. of water,
to disak, wash the filter with a little water, add to the
rate 1,574 of stronger alcohol and water to make the whole weigh

reduct must contain 4 grains of morphia to each fluid bow many fluid ounces must be prepared for the quautity attenth part, or about 1 fl. oz., put it in a small tared about 77 grs. of a mixture of solution of ammonia and aprea also. Set the capsule in a seneer half filled with water and cit with breaker to keep its contents in a moist atmosphere. After public it with breaker to keep its contents in a moist atmosphere. After public it with breaker to keep its contents in a moist atmosphere. After public will have deposited in a crystalline crust. After give the number of grains in an ounce of the solution of inplying this number by 16 (the number of fluid ounces in ad and dl ing by 4 (the number of grains of morphia in cach fluid shed product) will give the number of fluid ounces to which the test must be made up. Each fluid ounce should weigh contain 4 grs. morphia, 164-91 grs. stronger alcohol ded chloroform, and 27.29 grs. of acetic other.

to find how uch alcohol must be added, multiply the final number of douces 1 64.91 and subtract from the result the 1,574 grs. of alcohol ricesly add. To find the quantity of chloroform and acetic ether to sided morely the final number of fluid ounces by 23.13 and 27.29 rectirely. balance must be made up by adding water.

### Chemists and Doctors.

De Chemi nd Druggist -

arned" friends, as some of the third and fourth rate mend to medical profession delight to be termed, are determined value of that useful individual the chemist in the eyes be general blic as far as their capacity permits. This, fortunately, they desire. It is a notorious fact that the lower grades of deal practioners, some publicly and many privately, lose no opporting of desting or depreciating the fair remuneratiou of the chemist analysis means, gentlemanly or otherwise. For what purpose? the public made acquainted with it. That the medical attendant yobtain so kind of excuse or opportunity for charging more exorbidity for, in any cases, the very questionable value of his opinion and

the chem will only employ their opportunities for retaliation, some these gent may have reason to regret the course they have taken. Ter send a lient to one of them, but throw all possible practice into hands of, chem en as work isonestly and independently, without acting and tempting to injure the business and reputation of the misk. The is one other matter which chemists ought to consider will, the sible course of medical legislation. If chemists are such smally ill ormed men as to send to the Pharmaceutical Council from who a actually and secretly aiding and abetting the aggressive fly in the adical profession to obstruct, annoy, and depreciate the featened striple comes, their interests are betrayed by those who except, directly indirectly, to be well paid for the job.

I am, yours truly,

Telephone.

wishes for the formula for Dr. Startin's ointment for undruf, or f some other approved application. The formula for Dr. artus's pome to prevent the falling-out of the hair was published at 440 of our 1) volume, and a letter from Dr. Startin at p. 504.

### Pharmacy in Canada.

We noderstand that an English chemist and druggist or harmaceutic temist could not claim the right to carry on his business temist could not claim the right to carry on his business to believe that in either of the provinces the holder of an wish certify would only be subjected to a formal examination. If the are wrong this assumption perhaps some Canadian friend will kindly order us. O correspondent also wants to know whether there is any are regulating int istry in Canada as in this country.

### Competition in the Drug Trade.

To The Chemis ad Druggist -

Sir.—With gard to "Competition in the Drug Trade," it may interest three and others if I quote from the Bristol Post of to-day ertisement of "F. & Co., Chemists to the Queen":— i. per lb.; cit. magnesia, 1s. 2d. per lb.; tartarie acid, la &d. per lb.; commercial carb. soda, on kali, 9d. per lb.; seidlitz, &d. box; 1s. 1½d. patents is may sold for image. The bottles for 7d.; castor oil, 1Cd. per lb., and others on sam

It is well k vn that proprietors of patents, &c., encourage "cutting

firms" by allowing them a large discount for quantities; but do they imagine they sell more in the aggregate? My filea is they should raise their prices to 11s. or 12s. per dez. for the small size, and allow no discount to any except the London recognised patent medicine houses, and thus give us a chauce of selling even at a small profit. The sale, I think, would be quite as large; the extra profit to the maker considerable; the public would be able to obtain them at most clemists, as at present some of the latter keep very few, and do not care to order to keep their stock complete.

In self-defence, and to discourage the use of patents, I do not exhibit show-cards or distribute bills relating to them; neither do I answer letters asking me to become agent, or requesting me to have their bills with name and address at bottom.

Some chemists having popular articles, I am surprised to see, advertise as their agents "the cutters."

Other chemists, I am surprised to see, allow themselves to be appointed agents for popular articles introduced by "the cutters," or so-ealled drug companies.

Some ehemists, I am surprised to see, give testimonials (I suppose they are not all spurious) in favour of quack medicines, &e., and go so far as to take them and give them to members of their families. The eredulity of chemists must be great, as advertisements are addressed to them recommending them to take So-and-so's pills for the liver, stomach, &e.

Everything we can devise to worry or weaken our deadly enemies should be enforced, perhaps even to combining among ourselves and advertising patents and proprietary articles at a minimum profit, and thus try and prevent all our customers leaving us.

Traitors to the trade seem to supply groeers and lineksters with chemists' goods, judging from their shop-windows.

I am somewhat surprised at chemists' assistants assisting to ruin the trade by engaging themselves to "the cutters," but I will not enlarge on that subject.

By inserting the above in The Chemist and Druggist you will oblige Yours truly,

Bristol, July 12.

COMMON SENSE.

#### The Condition of the Trade.

To The Chemist and Druggist-

Sir,—It is very disturbing to find that the legitimate aspirations of country chemists are so persistently misrepresented, and, as it were, held up to seorn by those from whom one might have expected at least sympathy and support. The secure atmosphere of an editorial sanctum is perhaps, not favourable to their practical consideration, but at any rate it need not develop such antagonistic sentiments as those we have lately seen put forth by your contemporary of Bloomsbury Square, under the plea of advocating a more "stringent curriculum," and more "rigid conditions" for ensuring a proper qualification for carrying ou the drag trade.

Because we compain of the present condition of the trade and the manner in which it is assailed, we are charged with seeking a "monopoly," and begging for "protection," and are reminded ad nauseam that the present Act was never intended for any such purpose, protecticu to the public being its sole object, and that it would be better if each one minded his own concerns and allowed others to do the same! or, as another gentleman puts it with grim irony, allow yourself to be eaten up with a good grace and make uo wry faces.

Now it is very curious that whilst for the protection of the public wanting physic a higher education is advocated for those who supply them with it, the protected public themselves are told that they may go to the Jew, or the tailor, or the grocer, and be equally well supplied Now this is not right. What the chemist wants is neither monopoly nor protection, in the offensive sense usually associated with these terms; but he wants to be let alone, and to be considered the recognised source of supply to that public for whose protection he has been specially educated. You may call that a monopoly if you like, but the case is on all-fours with that of a surgeon. For the "protection of the public" he is specially educated to treat disease, and if any one not so educated ventures to do the same he will very soon find that he is prevented by the law, and punished for his temeraty; but uo one dreams of stigmatising this as a monopoly, and yet, under preci ely similar circumstances, the country chemist finds himself in competition with beerhouse-keepers, Jew tailors, provision dealers, and a score of other traders of the very lowest rank, who are actually enconraged to continue their nefarious proceedings by those who ought to know better, and who assume to be leaders in pharmaceutical matters, whilst the law for "public protection," which ought to be actively enforced, is either allowed to sleep altogether, is timidly set in motion, or is left to be invoked by another organisation! A correspondent in the Pharmaceutical Journal of Jnne 3 says :-

"I think it absolute folly to wish to enforce such stringent regulations while our business is in such a 'dilapidated' condition, for while drapers and oil-shops coutinne to supply medicines (?) our profession is not worth qualifying for, even under the existing code of examinations."

He thinks that these sentiments "will be generally endorsed" by his brother-chemists, which is not unlikely. Certainly, at present, the whole

edifice of pharmacy is nndermined, and even now tumbling about the ears of its occupants; some may escape safely, others with a few bruises, but the majority, it is to be feared, will be buried under the ruins. All this is brought about under the idea that "protection" is being afforded to a public which cares nothing at all about it, and that a proper qualification is being secured for carrying on the drug trade!

Warrington.

[Some qualification to our correspondent's argument ought to be added for the sake of accuracy. The law as expressed in all the Medical Acts, save one, does not aim to give qualified medical men any monopoly in the treatment of disease. In the recent Royal Commission report (par. 2) it is stated in reference to the Act of 1858, "Parliament was not prepared to cnact that registered persons alone should practise medicine or surgery, but it seems to have been assumed that if a statutory distinction were drawn between registered and unregistered practitioners, the public would know how to protect itself against unqualified persons." And, again (par. 61), "We consider it undesirable to attempt to prevent unregistered persons from practising, but at the same time, we think they should be prevented from representing themselves as being registered, or from assuming titles which would lead the public to believe that they are regular medical men." The one exception to this general spirit of the Medical Acts is the Apothecaries Act of 1815, and it is quite certain that the penal clauses of that Act will be repealed in any future Medical Act, and a'so that they could not now be enforced to any serious extent .- ED. C. & D.]

#### The Curriculum.

To The Chemist and Druggist-

SIR,-The enforced curriculum being now an interesting topic in pharmaceutical circles, I venture to add a few lines on the subject, which, I have no doubt, will come in for their due share of criticism from the would-be professional section of druggists. In the first place I fail to see that it will be any practical advantage to us; for in spite of all this more solid and scientific knowledge, and all the extra time and money spent in acquiring it, opposition from stores and general dealers will be just as great as ever, and those who go through the curriculum will think they are entitled to better remuneration; but will the masters to in a position to give it? And, again, when these who have gone through an enforced curriculum are in business on their own account, they will find that in order to keep pace with the spirit of the times, and meet the competition from stores, &c., cutting prices of medicine dealers, they must rely on their commercial knowledge quite as much as, or, perhaps, more than, on their scientific knowledge. They will also find that no matter how great the amount of their scientific knowledge, the British public will patronise the cheapest market. It would, no doubt, prevent many from entering the Society, and cause them to start establishments where patents proprietary articles, and drugs (except a few poisons) will be sold.

I think the examinations at present in vogne are a sufficient grarantee that those who pass them understand sufficient about drugs and chemicals. The ordinary routine of a druggist's shop cannot be acquired by reading

up for examinations.

Before the Council endeavour to put a more professional gloss on the trade, I think it would be far wiser to strenuously endeavour to make the Pharmacy Act a little more perfect. For every wrong there is a right; but I do not think that right will be brought about by hanoicapping the pharmacist of the future. Why not handicap outsiders and dabblers in medicine, and then consider the lest means of keeping the trade select and not over-stocked?

PILL-GRINDER. (16/28.)

[It is hardly worth while to discuss the question of the pecuriary results of a compulsory curriculum. No one supposes that a curriculum will put an end to opposition, or be a substitute for commercial ability. The promoters of the curriculum say that the present arrangements do not guarantee a sufficiently accurate knowledge of the subjects with which a chemist and druggist should be familar. Pecuniary advantage to the trade resulting from a more complete mastery of the business must needs be indirect.—Ed. C. & D.]

Liq. Tolutanus Conc.—Mr. H. Cumber, jun., Guernsey, sends the following:—In rely to "Yorkshire Bite (12/52)," I have for some time used the following with satisfaction:—

Shake well and filter, and pour over the filter enough water to make the product measure 3vij. 3j. 1145; 1 part of this mixed with 4 parts of thick simple syrup makes a syr. tolut. of British Pharmacopæia strength. This solution keeps well.

Forkshire Bile writes: I tried the experiment snggested by you in last month's number of The Chemist and Druggist for making syrup tolu (12/52), and fail to perceive any difference between the syrup made in that way and the B.P. preparation.

### Obituary.

BLUNDEN.—On May 20, Mr. Frederick Blunde clemiand druggist, Basingstoke. Aged 45 years.

COOKE.—On May 20, Mr. Thomas Cooke, chist at a druggist, Holt, Norfolk. Aged 56 years.

EDWARDS.—On June 7. Mr. George Edwards, c mist and druggist, Kentish Town Road. Aged 33 years.

GEHE.—Our German exchanges record the bull, June 22, of Mr. Franz Ludwig Gehe, the principal known firm of wholesale druzgists, Gehe & Co., a Drewland Mr. Gehe was over 72 years of age. He foundeness of which he was the head in 1834, after 10 perience in the firm of Brückner Lampe & Co., of pipsic his business were employed 70 travellers, phare chemists, and 120 other persons. Besides superinding business, Mr. Gehe was a member of the Saxony and took an active part in the formation of processing the same of the saxony and took an active part in the formation of processing the same of the saxony and took an active part in the formation of processing the saxony and took an active part in the formation of processing the saxony and took an active part in the formation of processing the saxony and took an active part in the formation of processing the saxony and took an active part in the formation of processing the saxony and took an active part in the formation of processing the saxony and took an active part in the formation of processing the saxony and took an active part in the formation of processing the saxony and took an active part in the formation of processing the saxony and took an active part in the formation of processing the saxony and took an active part in the formation of processing the saxony and took an active part in the formation of processing the saxony and took an active part in the formation of processing the saxony and took an active part in the formation of processing the saxony and took an active part in the formation of processing the saxony and took an active part in the formation of processing the saxony and took an active part in the formation of processing the saxony and took an active part in the formation of processing the saxony and took an active part in the formation of processing the saxony and took an active part in the formation of processing the saxony and took an active part in the formation of processing the processing the processing the processing the processing the proce

INGHAM.—Mr. Thomas Whittaker Ingham, cmist of druggist, Burnley Road, Padiham. Aged 28 yes.

OLIVER — On May 24, Mr. Frederick Bay Oh chemist and druggist, Folkingham, Lincolnshir Aged years.

ROBERTS.—On June 5, Mr. John Lewis Rob s, che and druggist, South Street, Manchester Squar years.

SANDERS.—On May 21, Mr. Thomas Scho Chemist and druggist, Bury Street, Salford. At 132 p

SIMON.—On June 1, Mr. John Simon, emist Udruggist, Hamilton Road, Everton, Liverpoo Age years.

SPENCER.—On May 23, Mr. George Spencer haim tical chemist, Cornhill, Lincoln. Aged 73 year:

WILLIAMS.—On June 24, at Swansea, Mr. R. Will aged 67, lately in business at Oystermouth, Swarea. days before his dcath he retired from business, id would be with his family in Brunswick Street. (Saturation June 24, he was seized with paralysis and died He keyster at Saturation with the several sons, most of whom are pharmaceutical nemistration.

FARRER.—On April 25, Mr. Frederick Farrer benish the druggist, Kessingland, late of Wrentham, Stolk. 71 years.

EASTON.—On May 27, Mr. Thomas Day Ea on, chi and druggist, Danby End, Yorkshire. Aged 50 cars.

SPINK.—On June 9, Mr. Charles Christ her chemist and druggist, Market Place, Pontofn. Ag years.

PARKER.—On June 12, Mr. Edward Pair, philippe ceutical chemist, Carlisle. Aged 64 years.

MABBOTT.—On June 18, Mrs. Ruth Mabbott hemit druggist, Manchester. Aged 58 years.

WEBSTER.—On June 29, Mr. George Alf d Webbach with and druggist, Green Road, Leeds. Al 39 years

WILLIAMS.—On June 29, Mr. Thomas Wil ms, chand druggist, Welshpool. Aged 28 years.

HILL.—On July 8, Mr. Thomas Hill, chemist id druger.
Bath. Aged 67 years.

Fox.—On July 10, Mr. Alfred Fox, chemist d drugger Porter Street, Hull. Aged 27 years.

ROUGH TEST FOR MILK.—Plunge a well-pole ed knilling needle into a vessel of milk and withdraw it is ediated a vertical position. If the milk is pure a few open of its remain attached to the needle; if, however, mly a remain attached to the needle; if the needle in t

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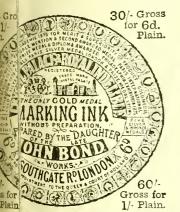
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Ammonia (free)	0.3	*****	trace
Sulphate Potassium	3.2	25.18	7.16
", Calcium	185.6	171.30	*****
Chloride of Sodium	301.3	997:22	105.31
Bicarbonate ,,	140.3	*****	51.2
Carbonate Calcium	1.9	1 27:02	20,51
" Magnesium	12.0	21.02	60 <sup>.</sup> 51
,, Iron	3.2	1	0.58
Alumina	5.6	·····	0.28
Nitrates (minute trace)	*****	•••••	
Silica	1.6	4.40	0.80
Bromide Magnesium	*****	2.75	•••••
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2/9 Ditto ditto21)
3/6 Aubergier's Syrup27/
1/9 , Pâté
6/6Bay Rum54/
3/6 Ditto27/
2/0Belloc's Charcoal16/
1/9 , Lozenges 13/
4/6Blancard's Pills30/
2/9 Ditto18/
4/6Brou's Injection24/
4/6 Bugeaud's Wine36/
4/6Bully's Vinegar33/
2/6 Ditto17/
4/6Candé's (Lait Antéphilique) 40/
4/6 Capsules Bromide of Camph.45/
4/6 , Matico30/
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Retail Per doz.	]
1/6Capsules Raquin30/	5
1/6 , Mathey Caylus22/	5
6 Chassaing's Wine36/	1
2/9 ,, Pills25/	1
6. Clin's Bromide Campb. Caps 45/	4
Dragées 45/	1
1/6,, Dragées 45/ 2/9Dusart's Syrups27/	
4/6 , Wines	4
5/0Eau Botot	1
3/0 Ditto26/	1
2/3. Espic's Cigarettes15/	1
2/9Flon's Syrup23/	1
2/6. Gayetty's Paper18/	1
2/3Granules Arsen. Acid15/	i
2/3 ,, Iron15/	
	5
2/5 ,, 5, SO(8,15/	1

Retail	Per doz.
2/9., Grimault's Syrup	322/
2/3 Guyot's Goudron	
11/ Laville's Gout Ti	
11/ ,, ,, Pil	
2/3Papier Fayard	13/
1/11 Ditto	
4/6. Papier Fruneau	
2/3 Ditto	
1/9Pâté Aubergier	
1/9 ,, de Georgé	
	8/6
	15/
	13/
1/9 ,, Regnauld	
7/0Pierlot's Valerian	54/
2/9Rabuteau's Drage	es Ferrug.27/

6/0 Rabutean's Elixir F	ng.	4
3/6 Sirop		2
4/0Racahont		.,1
5/0. Reynal's Bougles		4
3/6. Ricord's Injection		
4/6 ,, Capsules		
8/0 ,, Syrup?	42/	: 5
2/0Star Paper		
2/9Tamar Indien		
2/9. Vallet's Pills		
1/9 Ditto		
4/6. Veloutine (White a		
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3/0. Vichot's Trochisqu		
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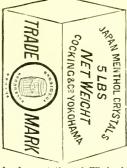
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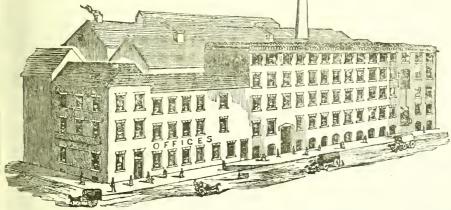
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#### IMPORTANT CAUTIONS

rom ord Chancellor SELBORNE, Vice-Chancellor Sir W. PAGE WOOD, and the LORDS JUSTICES OF APPEAL.

VICE HANCELLOR SIR W. PAGE WOOD, by whom the suit in Chancery was first heard, stated in his judgment that Dr. J. Cc. Browne was undoubtedly the Inventor of Chlorodyne, that the whole story of the Defendant Freeman was as liberate intrue as the falsehood he had deposed to with reference to the use of his Chlorodyne in the Hospital,

The DE-CHANCELLOR also stated, 'that Chlorodyne was a fanciful name, and had application been made sooner, the court wou have given Dr. Browne protection.'

LORI HANCELLOR SELBORNE coincided with the judgment of the Vice-Chancellor upon this point, and stated 'that

dapplic on been made at a proper time and place, the Court would have found means to restrain the Defendant from misreresenting e decision of the Vice-Chancellor.'

LOR JUSTICE JAMES, on appeal, stated in his judgment, 'that the Defendant Freeman had made a deliberate misrepre-

mtation che decision of Vice-Chancellor Wood.

It was roved in Court, on affidavit by Mrs. Forbes, of Paris, that the testimonial published in the Times, November 14th 165, spealing of the great efficacy of Chlorodyne in Cholera, referred to Dr. J. Collis Browne's Chlorodyne, and that she never ed any or, that she had written to the Defendant Freeman to that effect; notwithstanding which notice the Defendant iblishes t said testimonial as referring to his medicine.

The Hor of the Medical Times, in his report on Chlorodyne, January 13th, 1866, gives information that the Chlorodyne and to as the medicine introduced by a retired Army Medical Officer, which was Dr. J. Collis Browne; still this is published

the Defdant as testimony to his medicine.

Nume as affidavits from eminent Physicians and others were produced in Court, stating that Dr. J. Collis Browne was the wenter of blorodyne, and that when prescribing they mean no other.

The Lendant himself publishes that his compound is in effect and composition quite different to any other preparation

werthelethe assumes the name, testimonials, &c., of Chlorodyne.

Techn lities in law prevent that protection which the public should justly have against such a course of conduct. It is now cumbent, all who purchase Chlorodyne to see that the name, 'Dr. J. Collis Browne's Chlorodyne,' is engraved on the prevenues Stamp, as it is not sold otherwise. All other compounds under the name of Chlorodyne are spurious. All attempts analysis we failed; hence the statement that the constituents of Chlorodyne are known is a misrepresentation.

> From Symes & Co., Pharmaceutical Chemists, Medical Hall, Simla, January 5, 1880.

To J. DAVENPORT, Esq., 33 Great Russell Street, Bloomsbury, London.

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The Divisional Head Quarter Staff and Civil Surgeon, Cabul.

THE "TIMES," AUGUST 13th, 1877.

From our own Correspondent with the Russian Army.

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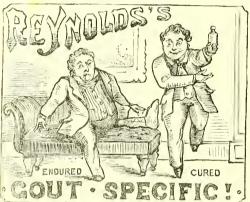
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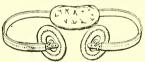
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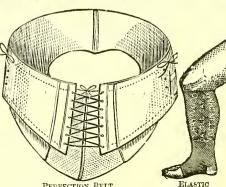




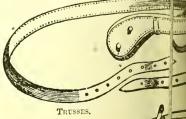


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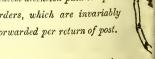




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Fig. B.

old method

the

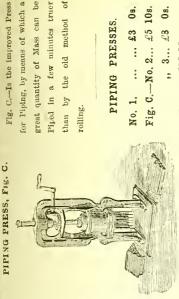
cf Machinery, whereby any description of Pill at the rate of from 15 lbs. to 10 lbs. per hour, according to the Rotary Machine, Fig. A.—This invention con-Fig. A. sists in a novel and improved Mass can be converted into Pills, size of the Machine used. arrangement

ROTARY PILL MACHINES.

" 2...£15 15s ., 3...£20 0s. Fig. A.- No. 1...£12 128.

Machine, capable of making Fig. B .- A small useful 10 lbs. of Pills per hour, particularly adapted quantities, at £7 15s making persons

Press suitable for same,



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No. 1.

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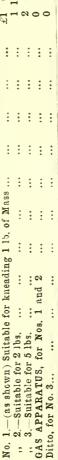
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This Apparatus is equally adapted to warm or cold Masses, and in consequence of the lever having a double action, it has a grinding serverying motion which is not obtained with the ordinary pestle and mortar. A quantity of Mass, may be well kneaded in built serverying motion which is not obtained with the ordinary pestle and mortar. the time occupied by any other method. The Apparatus is easily cleaned, all working parts being of polished fron. and streading motion which is not obtained with the ordinary pestle and mortar.



10 h

TESTIMONIAL FRENCH

Mr. J. W. Pindan, Camberwell.

10 Rue du Bac, Paris, 10th Dec, 1861.

Sir.—I am much pleased with your Rotury Pill-making Machine, which has now been in us-in my laboratory for some months: the two cylinders work a lunirably, and turn out Pills with great correctness and speed. The Archine I consider most satisfactory, and the result astonishing to one accustomed to the old tedious method. I shall be happy to be of service to you, should occasion offer, by 79 Rue du Bac, Paris, 10th Dec., 1864. recommending your valuable invention. You are free to make any use of this testimonial .- Yours sincerely,

3 Crane Court, Fleet Street, Feb. 14th, 1871.

Dear Sir,-We have now used rour Rotary Pill Machine about six makes the Pills of a very regular size. Nours truly, T. WHELPTON. years, and find it answers better than any we had previously used To Mr. J. W. PINDAR.

r. J. W. Piydan. Boad, London, Nev. 9th, 1889. Dear Sir, - Your letter of inquiry came duly to hand. As I always told you, the Pill Machine in operation at my London warehouse has pense. I can safely say that your lill Machine is all that you claim it given entire satisfaction. So have those we are using in this country, We can make smooth, round Pills of uniform size at a very small ex-A. J. WHITE. 29 Murray Street, New York, and Farringdon to be- a perfect Machine,-Tours truly, Mr. J. W. PINDAR.

Testimonials from all parts of the world may be seen on application to J. W. PINDAK.

Sir,-I have much pleasure in stating that the Pill Machine which you t an those by hand machines, and with much less waste. I can, theremade for me answers remarkably well, as the Pills are far better made 224 Strand, 13th March, 1865. Mr. J. W. PINDAIL.

Sir,-The Rotary Pill Machine and Press which we had from you (for a special order) answered very satisfactorily.—We are, sir, yours memorifully Feb. 11th, 1871. 338 Oxford Street, opposite Great Portland Street, Mr. J. W. Pindan.

hbour, and consequently expense. I remain, yours faith fully. THOMAS HOLLOWAY.

75

Tasteless Pill Manufactory, Brighton, 11pril 24th, 1867. THESTIMONIALS

to the inspection of our brother druggists.—We are sir, your obedient servants. you made for us more than twelve mouths ago answers admirably, and although we frequently make more than five hundred gross of Pills a shitting of the various cyhuders-thes allowing different sized Pills to be made by the same machine. This is a very important consideration with us, as we make and cover all sizes of Pills for surgeons and We are pleased that we had an opportunity of recommending you to Mesers, FERMS, of Bristol. Our manufactory is at all times open Sir .- We bave much pleasure in stating that the Rotary Pill Machine day, it has not required any repairs since we purchased it. We are particularly pleased with the adjustment of the bearings, which allows the Mr. J. W. PINDAR. chemists. fore, confidently recommend it as a very excellent one, a great saviog of

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\*\*Proveng the ill effects of cold, and the shock of loud noises to rears. I bathers and persons close to the firing of cannon, and the top the state of this very cheap and simple protector must attempt in the control of the state

Treasure of the second of the

Depty. S. con-General HENRY F. WILLIAMS, M.D., &c., Southsen.
We examed your Ear Protector, and am of opinion that as soon
slopted perally by those exposed to sudden and loud explosions,
as confus noises from engines and machinery, much benefit as
compared to be experienced.

The protection of the control

with the ear tolerates its presence, non-unsigntimess, in

R SCRWA SACH, M.D., Professor of Aurae and Ophthalmic Surgery at the University of Königsberg.

The sending me some of your Ear Protectors. I have tried some of y patients and consider your invention a capital idea. The sending me some which is essential in removing sending and leasant degree of warmth, which is essential in removing sending the sending se thaclous idle-ear catarrh. I am using one myself when going From W. Murrell, Esq., M.R.C.S., Southsea.
"I consider Dr. Ward Cousins' Ear Protectors most valuable to swimmers as well as those exposed to deafening noises."

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"I can speak highly of Dr. Ward Cousins' Ear Protector as a preventive
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bathing season; and consider that it would be very efficacious as a preventive against shock to the hympanum during artillery practice.
SOUTHSEA, November 7, 1881. J. A. WOOLFRYES, Surgeon-General."

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"I have used Dr. Ward Cousins' Ear Protectors for diving and swimming with great comfort, and much wish the admirable little contrivance had been brought ont sixty years ago. I am confident that a large number of persons are prevented from bathing in consequence of sensitive ears, and the protector will be a great hoon to them. It is also an excellent invention for protecting the ear from the hurtful effects of loud noise, and serious injury which I have known occur during gun practice."

"STATION HOSPITAL, GOSPORT, November 9, 1881. DEAR DR. WARD COUSINS,

Your little invention to protect the ear on occasions when the organ is exposed to concussions from the firing of heavy ordnance, or from draughts, or whilst bathing, &c., seems well adapted to its purpose, whilst it has also the great merit of being very portable and of easy appli-

cation.

It should be of very great service to those whose hearing is easily disordered by external impressions.

Yours sincerely,
G. GRIBBON, Surgeon-Major, A.M.D.,

In charge Gosport Station Hospital."

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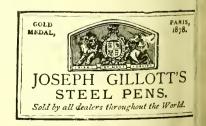
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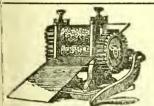
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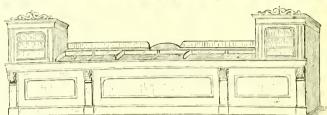
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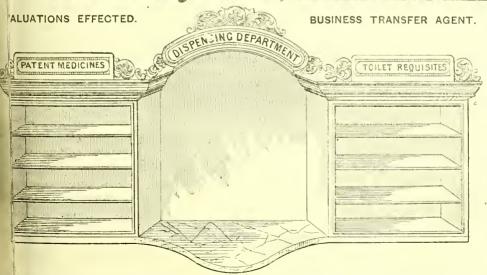
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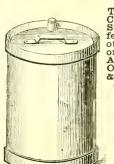
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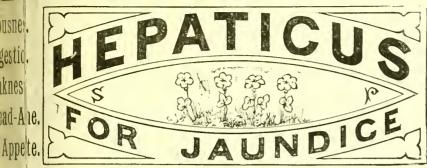
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## E VONDERFUL HEALTH RESTORER!



Nervous and Dyspeptic Affections. General Debility Spasms,

#### ALICOMPLAINTS ARISING FROM A DISORDERED LIVER!

ickly cust the above disorders of however long standing, PURIFIES AND CLEANSES THE BLOOD, and he system a healthy tone. NO CHANGE OF DIET IS REQUIRED. Those with weak constitutions may take the content of the content

Sold in Bottles 2s. 9d. each.

Count's this Medicine is invaluable, but more particularly so in the Tropics, India, and all Hot Climates, and we ly call to attention of Shippers and our friends in the Colonies and Abroad to it.

Termsapply to the Proprietors,—TOMLINSON & HAYWARD, Lincoln, England.

rade Mark "Hepaticus for Jaundice" and an Hepaticus Plant as illustrated above.

EST FOR SHEEP AND LAMBS. NON-POISONOUS.

fallible REVENTION and CURE of SCAB, Effectually Eradicates TICKS or FAGS, RED LICE, INSECTS, and ARASIES infesting the Skins of Sheep and other Quadrupeds; Destroys MAGGOTS, renders the Skin Healthy after the FL; it Cures and Prevents FOOT and MOUTH DISEASE, FOOT-ROT, and other Contagious Diseases; Heals DUNDS and is especially useful as a DRESSING for CUTS during and after the process of SHEARING; Greatly the GROTH of the WOOL, as also Increasing the Weight and Improving the Quality of the Fleece.

Can be used with Cold Water.

"GLYCRINE DIP" is an excellent Wash for Horses (cures Harness Galls and Sore Backs), Cattle, and Dogs. I Fleas at Curing all kinds of Skin Diseases and Sweetening the Skin.



RADI MARK.

None is Genuine unless bearing this Trade Mark.

Sold in Tins of 5 lbs. and 10 lbs., and Drums of 20, 30, 40, 50, and 100 lbs.

Price 6d. per lb.

1 lb. for every 5 Sheep or 6 Lambs.

BEWARE OF IMITATIONS & FALSIFICATIONS.

CAUTION.—We have the sole right and Proprietorship of this Title and Mark, and we shall at once commence actions against any person or persons imitating, or otherwise pirating them, and we heg to caution Merchants and Buyers against such imitations.



TRADE MARK.

SOLE PROPRIETORS AND MANUFACTURERS,

## ILINSON & HAYWARD, Lincoln, England.

TESTIMUIAL from NICHOLAS LOWE, Esq., ALTAMIRA, Mercedes, Buenos Ayres, October 22, 1880.

SSETS. MORE & TUDOR.—In reply to your letter of the 18th, I am thankful for your congratulations on the sale of my 1135 per a I have sold another lot at \$140, and I attribute the success of placing wool worth these prices in market cured the ocks of Scab. There are several remedies more or less efficacious and cheap. I use only the "Glycerine are several remedies more or less efficacious and cheap." I use only the "Glycerine are several remedies more or less efficacious and cheap. I use only the "Glycerine are several remedies more or less efficacious and cheap. I use only the "Glycerine are several remedies more or less efficacious and cheap." I use only the "Glycerine are several remedies more or less efficacious and cheap. I use only the "Glycerine are several remedies more or less efficacious and cheap. I use only the "Glycerine are several remedies more or less efficacious and cheap." I use only the "Glycerine are several remedies more or less efficacious and cheap. I use only the "Glycerine are several remedies more or less efficacious and cheap. I use only the "Glycerine are several remedies more or less efficacious and cheap." I use only the "Glycerine are several remedies more or less efficacious and cheap. I use only the "Glycerine are several remedies more or less efficacious and cheap." I use only the "Glycerine are several remedies more or less efficacious and cheap. I use only the "Glycerine are several remedies more or less efficacious and cheap." I use only the "Glycerine are several remedies more or less efficacious and cheap. I use only the "Glycerine are several remedies more or less efficacious and cheap." I use only the "Glycerine are several remedies more or less efficacious and cheap. I use only the "Glycerine are several remedies more or less efficacious and cheap." I use only the "Glycerine are several remedies more or less efficacious and cheap. I use only the "Glycerine are several remedies more or less efficacious and cheap." I use only the "Glycerine are several remedies more or less efficacious and cheap. There are several remedies more or less efficacious and cheap. I use only the "Glycerine Ported by u, and I am well satisfied with the result it gives. I have no objection to your making the fact public. My "Mr. Wilm Cleary, also uses the "Glycerine Dip," and he obtained a Silver Medal Prize, at the Paris Exhibition of who use the same Dip are satisfied with it, and promise to continue patronising the "Glycerine Dip."

Applications for Agencies invited in those countries where we are not already represented.

#### IMPORTANT TO CHEMISTS, DRUGGISTS & OTHERS.

Agents for Retailing the following Poultry Condiment wanted in every Town in the United Kingdom where none have already been appointed. CHEMISTS AND DRUGGISTS will find that the merits of this Article create for itself a rapid sale. Those who have already taken it up are frequently repeating their orders and increasing the quantities ordered. It is made up in near SINZENNY PACKETS, measuring 4in. by 2§in. by 1 in.; and again in Boxes containing 3 dozen Packets, thus taking up very little space. with Printed? and Address I free of cost.

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Wholesale Agents:—Barclay & Sons, 95 Farringdon Street, London, E.C.; Wyleys, Walker & Co., 223 Upper Thames Street, London, E.C.; Wyleys & Company, Coventry; Evans, Lescher & Webb, 60 Bartholomew Close, London, E.C.; Evans, Sons & Co., 56 Hanover Street, Liverpool. Or direct from the Proprietors,

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CUNDALL'S

Prevents the Attack of Rooks, Game, and Vermin. Prevents Smut in Wheat. Is Suitable for all Descriptions of Corn.

Sold Retail at 3/6 per Gallon, Can included. LIBERAL COMMISSION.

COMMANDS A READY SALE WHEREVER INTRODUCED. AGENTS WANTED WHERE NOT REPRESENTED.

ROBT. CUNDALL & CO., POCKLINGTON.

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Is soluble in Cold Water, and should be ed in preference to any other Dip.

FOR TICKS, FLY, SCAB, AND FOR AI OTHER SHEEP DIPPING PURPOSES

This Dip has been in use upwards of 35 yes, and h never been equalled by any other; it is of unifor strengt does not stain the wool, and is equally good as summer Winter Dip. It is especially recommended for Diling Lam and as a certain Cure for Scab.

In Packets to Retail at 1s. 4d. each, for ) Sheep Counter Bills and Directions in English, Spanish, Dutch, &c. 14 be had on application.

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For Preventing the Fly Striking Sheep Lamb Destroying the Maggot, &c.

In 1-lb. Packets, to Retail at 6d.; and in 21- perform Canisters, to Retail at 1s. 4d.

This Powder may also be had in Packets with a bel be the Retailer's own Name and Address, provided ne grow more be taken at once.

SPECIALLY LOW QUOTATIONS FOR QUANTITIE IN BE Samples on application.

Terms and further particulars may be had of the ropned WILLIAM COOPER, M.R.C.V.S., Cher al Wo Berkhamsted, Herts.

#### SPRATTS PATEINT MEDICINES

TASTELESS APERIENT BISCUIT

The Field, 28th January, 1882, says:—"The satisfactory results we obtained leave no doubt in our mind as to the alm of invention."

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CURES ALL KINDS OF CUTS, BRUISES, AND WOUNDS IN MAN AND ANIMALS

"SPRATTS PATENT," Bermondsey, S.E., or order through your Wholesale louse

Wholesale Agents for the Soap and Dog Medicines:—Barclay & Sons; Sanger & Sons; Sutton & Co.; F. Ne ery & Lynch & Co., London; Raimes & Co., Edinburgh, York, and Liverpool; Ravensdale Mill Co., Dublin; Woolle; Sons & Manchester; Taylor, Gibson & Co., Newcastle-on-Tyne; Goodall, Backhouse & Co., Leeds; and of all Wholes

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BIGG'S

the late Prince Coort.

For Destruction of Ticks, Lice, &c., and Prevention of Fly.

HAS NOW BEEN USED WITH GREATEST SUCCESS FOR NEARLY HALF A (NTU)

PAMPHLETS ON APPLICATION.

LEICESTER HOUSE, GREAT DOVER ST., BOROUGH, LINDO In any Town where no Agent exists Chemists are requested to apply.

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#### INUGS. CHEMICALS, PHARMACEUTICAL PREPARATIONS.

#### GABRIEL & TROKE.

poleale and Export Druggists and Manufacturing Chemists,

CITY ROAD, LONDON.

#### GABRIEL & TROKE'S REGISTERED CAPSULED HORSE BALLS.



Manufactured solely by GABRIEL & TROKE, WHOLESALE DRUGGISTS, 82 CITY ROAD, LONDON.

<mark>ERS OF ALL VETERINARY PREPARATIONS, EVERY KIND OF VETERINARY INSTRUMENTS AND SUNDRIES.</mark> MANUFACTURERS

SAMPLES AND SPECIAL QUOTATIONS FOR LARGE BUYERS,

ood in any climate dozen each. Cap ormulæ on hand, a accurately disper approved for fully and promptly ar Oils are convenier keeping t

## BLISTER

(Manufactured by R. J. JAMES, the Grandson of the Inventor).

sceletated Blister is now offered to the Trade at the following reduced prices: 14/- per doz. to £4 4 0 per doz. to 7 16 0 1 oz. pots from 12/6 per doz. 1 lb. pots from 0 2 8 0 2 4 0

Chserve the Trade Mark.—"A Horse's Head on the top of each Pct, and the signature, R. J. James."

Living & Crispe, 4 Cheapside; Newbery, 37 Nowgate Street; Maw, Son & Thompson, 11 Aldersgate Street; Hayes & Co., Goldin Core; Foggirt, Thirsk; and Sang & Barker, Edinburgh. Agents for the Colonies required. Apply, with reference, to R. J. Bludo ank Euildings, Ely Place, London, E.C.

LICES V. AMES.—Lond Romilly, the Master of the Rolls, on February 23, 1872, declared "that I had an equal right with other members of marginal possessing the receipt to make and sell this Blister."—R. J. JAMES.

#### ES ABLISHED 1833. LIEUT. JAMES'S BLISTER.

TET 1 1882

#### CAUTION.

The annexed Label is at the top of every Pot of the ORIGINAL and only GENUINE BLISTER.

The Messrs. Barclay & Sons, 95 FarringdonStreet, London, and Messrs. Raimes & Co., Edinburgh, Liverpool, and York, are now and have been Agents 45 years.

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tton & Co., 10 Bow Churchyard; W. Edwards & Co., 10 Bow Churchyard; W. Edwards & Co., 10 Bow Churchyard; W. Edwards & Co., 10 Bow Churchyard; W. Edwards & Co., 12 Co., 171A Aldersgate Street; M. Mather, and Road, and Manchester; Tidman & Son, Wilson Street; Sper, Sh Thames; A. A. Campbell, Leadenhall Street, London; Sons & G. Son, 40 Charterhouse Square; Sons & G. Son, 150 Leadenhall Street, London; Londo

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JAMES ole Manufacturer, STANFORD, FARINGDON, BERKS ordered to "It's Life" 45 years. Beware of Spurious Imitations.

In consequence of the great reduction in all Patent Medicines, the Proprietor has determined to reduce the Wholesale Prices of following Articles, viz.,

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TAYLOR'S	Conditi	on Balls	8	24/-	3/-	
Ditto	di	tto		12/6	1/9	
TAYLOR'S	Conditi	on Pow	ders	18/-	2/6	
TAYLOR'S	Cough :	Powders	ś	18/-	2/6	
TAYLOR'S					No retail price.	
TAYLOR'S					1/-	
Ditto	di	tto		14/-	2/-	
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SUBJECT	TO	THE	USUAI	DISC	COUNT.	

T. TAYLOR would call especial attention of the Trade to his "Cleansing Drinks," 5s. per dozen. They are put up in neat Packets, and save the Chemist immense trouble. Eff freferred, the Drinks can be had without the word "Taylor's"—only "Cleansing Drinks"—thereby enabling the Chemist to affix his own slip label; but to secure this, when ordering ask for those with the pink label.

#### NO RETAIL PRICE AFFIXED.

Prepared by THOMAS TAYLOR, M.R.C.V.S., Derby, and to be had from all the Wholesale Houses, or direct in gross boxes at £3 per gross, less 20 per cent. cash (carriage paid).

## ADVERTISEMENTS,

See pages 23, 24.

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## SOLUBLE FIR-TREE OIL INSECTICIDE.

For destroying all insects and parasites that infest fruit trees and plants, whether at the roots or on the foliage-such as green and black fly, thrip, red spider, American blight, scale and mealy bug, and caterpillars on gooseberry trees and cabbages, &c., &c. Full directions for use on each bottle.

FIR-TREE OIL will cure ringworm, itch (scabies), and nearly all skin diseases, especially those produced by parasites and fungoids, when applied full strength with a brush or sponge once a day.

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FIR-TREE OIL diluted with water stands unrivalled as a wash for dogs and other animals intended for show.

Sold in Bottles .1/6, 2/6, 4/6, 7/6,and 12/6 each. 

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Retail 13d, cach.

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TO COUNTERACT CUTTIN for to keep up the Retail Price, the VNA supplied to ONE REF. ILL III of each town, who has Exclusive bleede tach town, win pas Exclusive collection of Local Chemists must of incessity.

Agant. British Wholersle Drug cuses mapply, 78 600 have now gone out, over 200 are appointed. Quartiferance on the type of the collection of the colle

Retail 14d. cach. than It weeks at a time.

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"Have sold nearly 8 gross during four norths: send another 4 at Leiester 10 and

DEPOT, 268 WALTON ROAD, LIVEPOOL

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THE SUCCESS OF THE LAST THREE ASONS. Sold in 1s. Boxes by all Chemists and Grocer or a Sas can be obtained as under by post for LIBERAL TRADE TERMS.

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10 FISHERGATE, YORK, having worked for the last IC are at the Glass Works, bees to state that he can supply Show Table! of Glass D Lab-ls of the latest patterns; also Paper Labels, &c. Sh and Skor re-latelled in any part of the country. Terms on A LCATES.

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DAY, SON & HEWITT, 2 PROPRIETORS OF THE

## STOCK BREEDERS'

For all Disorders in Horses, Cattle, Calves, Sheep, and Lambs.

Patronised for over 40 years by Royalty, and the principal Stock Breeders, Horse Proprietors, and Igricultus of the British Empire.

The No. 2 Medicine Chest contains the following matchless remedies:-

- "CHEMICAL EXTRACT," for all External Injuries, and Ewes Lambing.
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CARRIAGE PAID TO ALL PARTS OF THE BRITISH ISLES.

Admirably adapted for all ordinary ailments among Stock, and each preparation can be had separately. Full and easy directlo inclosed.

Awarded "Certificate of Merit" by the National Agricultural Society of Victoria, Australia, 1871; President's Medal, Spal 8, 1872; Medal, Manchester and Salford Show, 1874; Silver Medal, Preston, 1875; Silver Medal, Northamptonshire Agricultural Society, Cheshire Agricultural Society, Crewe, 1875; Special Prize, National Agricultural Society of Victoria, Australia, 187 Medal, Cheshire Agricultural Society, Chester, 1876; Silver Medal, South African Exhilhtion, Cape Town, 1877; Silver Medal, Northumberland Agricultural Society, Chester, 1876; Silver Medal, South African Exhilhtion, Cape Town, 1877; Silver Medal, Northumberland Agricultural Society, Chester, 1875; Silver Medal, Northumberland, 1878; Medal, Dairy Show, London, 1878; Silver Medal, Mellingborough, 1879; Medal, Bentham, 1880; Medal, Mellingborough, 1879; Medal, Stourbridge, 1881. Silver Medal, Wellingborough, 1879; Medal, Bentham, 1880; Medal, Melbourne Exhibition, 1880; and Silver Medal, Stourbridge, 1881.

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For the effectual destruction of RATS AND MICE.



SALE INCREASING

Vheever introduced never fails to give satisfaction.

rn Stacks, Flour Mills, Warehouses, Ships, or Dwelling-Houses, quickly cleared of those troublesome pests-

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#### USE CRAVEN'S VERMIN

For the efficacy of which numerous Testimonials have been received.

Mice in y pantry.

Lipy sa -I used part of a 3d. packet, and found fourteen

READ THE FOLLOWING:

DEWSBURY, 18th July, 1879.

-Will ou send by bearer a 6d. packet of your a Poise I have been free from Rats for nearly two which the period that has elapsed since I had a similar which terminated in a few days the whole family of in my wehouse. Yours truly,

C. J. ABBS.

Mount Pleasant, Batley, 29th June, 1881.

SIR,—The packet of Vermin Poison I bought of you has been worth above a sovereign to me. I found five dead Rats, and have not been troubled with any since. I put it down.

From Messrs. Newball & Mason, Chemists, Nottingham.

Sir,-We find your Vermin Poison very good, and our customers are well satisfied with it; we intend to keep no other. Yours truly, NEWBALL & MASON.

hemists who have not tried CRAVEN'S KILLER, are requested to send trial order.

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CRAVEN'S GELATINE - COATED

THESE Balls are prepared in a very careful manner, composed of the firest Drugs, and sent out in a neat way.

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Packed in Half-Dozen and Dozen Boxes, retailing 1s. 9d. & 3s. 6d., or 4d. each. SAMPLES ON APPLICATION.

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Per Thousand Sheets Packets containing 5 Sheets (3d.), per dozen Packets containing 10 Sheets (6d.), 10 per cent., and 5 per cent. Cash Monthly.

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10 per cent., and 5 per cent. Cash Monthly.

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S. MAW, SON & THOMPSON, LONDO

## TER'S" INFALLIBLE VERMIN DESTRYE

"The Best Extant."

The enormous sale last year of this old-established article, and the few specimens of testimonials below, stamp it as undoubtedly "the best extant." It is very neatly and very carefully put up throughout, and is indeed a most satisfactory article in



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#### "CANNOT BE EXCELLED."

From 'Mr. Smith, Chemist, Glasgow:—"I have not kept any other Vermin Killer' than yours for the last four years. It is the hest I ever sold." From Mr. Geo. Eagle, Merrickville, Sydney, Australia, to Mr. Mitchell, Druggist, Pitt Street, Sydney:—"Sir,—I promised to let you know how 'Hunter's Vermin Destroyer' acted. Its effect was wonderful; in one night to destroyed all the rats and mice about my house, which was swarmed with them?

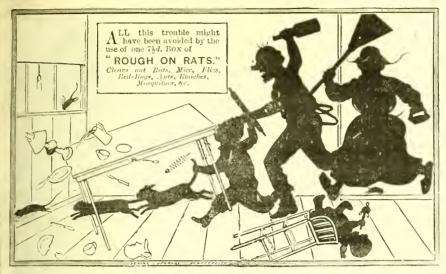
swarmed with them." Her has and mee another my mouse, which was swarmed with them." From Mr. A. Billington, Chemist, Wekefield; August 28, 1878;—"Dear Str.—Please send me a few of your Vermin Killer Registers. I can hear testimony to the deadly effect of your 'Killer,' having one night laid in my warehouse the contents of a 2d. packet, and found in the morning no fewer than forty dead mice."

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From Messrs. P. Smith & Co., Chemists, Runcorn,
"In our opinion your 'Destroyer' is the best extant."
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From Mr. Jas. Thompson, Low Hesket, near Carlisl Pattinson, Chemist, Carlisle:—"Sir,—You can with combet the string of the near Carlisles." It is the best thing I often cleared stack-yards of both rats and mice in a day often cleared stack-yards of both rats and mice in a day of the near the string of the near the string of

Kept in Stock by all the Wholesale Houses in the Trade throughout the United Kingdom. Vide Trade Li. &c.

LABORATORY-WESTGATE & UNION STREET, DEWSBURY, EN LAND



Bed-Bugs, Insects, Skunk, Weasel, Beetles, and all Vermin.



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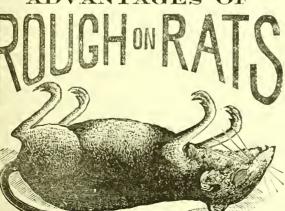
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THE CHEAPEST OF ALL.



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Win .	Con	dy's F	Riff
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RED... ls. size, 2s. 4s.

16s. GREEN 6d. 3s. 6d ls. 7s. 2s. 14s.

OZONISED WATER 2s. 8s. 3s. 6d. 16s.

OF ALL WHOLESALE HOUSES. WHOLESALE DISCOUNTS ON APPLICATION.

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DISINFECTING FLUID NAKE FORD'S FOLLEY, LONDON S.M.

IN WATERPROOF, AIR-TIGHT, & ODOURLESS PACKAGES. Protected by Royal L to Path

Is neat and clean, and convenient for use. Being air-tight and odourless, retains its strengtlunimp

IT IS ADMIRABLY ADAPTED FOR EXPORT, AND WILL KEEP FOR YEARS IN ANY CLIMATE. Per 24-lb. BOXES, containing 24 1-lb. Packages ditto Ditto ditto 48 ½-lb. 96 1-1b. ditto Ditto ditto 1-lb., ½-lb., & ¼-lb., assorted ......7/3 Ditto ditto Ditto ditto 1 Gross Penny Packages .....8/0 50-lb. CASES, containing 50 1-lb. Packages Ditto 10 5-lb. ditto ditto 100 ½-lb. Ditto ditto 200 1-1b. Ditto ditto ditto 1-lb., ½-lb., & ¼-lb., assorted .....14/6 ditto Ditto Also in 1 cwt. and \(\frac{1}{2}\)-cwt. Cases, to meet the requirements of large buyers and the Export Trade.

INWATERPROOF & AIRTICHT PACAGE

Packed also in Jars, Eottles, Casks, and Cases to order.
The Patented Composition for Export Orders is specially prepared to
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A SAMPLE BOX OR CASE CAN BE HAD FROM ANY OF OUR WHOLESALE AGENTS OR A LONG ALL GOODS DELIVERED FREE IN LOI ON. OR COUNTRY WHOLESALE DRUGGISTS.

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6

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This aicle is entirely new, and possesses the following qualities:

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The wmth of the body makes it adhere firmly.

Chear dhesive Plaster is liable to become unserviceable after a short time, even when prepared with atmosture and skill; at best, it is unwieldly and moderately adhesive. On the other hand, Mead's esive I ster overcomes every objection, and is sold at a very reasonable price; every ingredient is ered c nically pure, and spread on strong cotton cloth. The cloth can be torn without danger of ring to plaster mass.

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See also The British Medical Journal, January 28, 1882; The Medical Times and Gazette, January 1882; Medical Press and Circular, March 15, 1882; and The Chemist and Druggist, February 15, 1882.

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